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JOHNSON'S FACT BOOK

SHORT CUTS *for* SAVING
TIME AND MONEY

by T. G. JOHNSON

PRICE 75 CENTS

That Man Has Riches

Who can do for himself rather
than have others do for him;

Who saves time in small things
to have time for greater;

Who can give advice rather than
solicit it;

Who adds to his store of knowl-
edge as steadily as he adds to
his bank account;

Who can make his work a pleas-
ure and his pleasure a profit;

Who learns to accomplish a little
more for a little less;

Who knows how to do the right
thing at the right time in the
right way.

Johnson, J. G. Company

Johnson's Fact Book

A Compilation of Labor-
saving Short Cuts

*Practical Suggestions for
Practical People*

REVISED EDITION

Price 75 Cents

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P R E F A C E

Whatever you may do, there is a short way and a long way of doing it. This book contains 300 of the *short ways*.

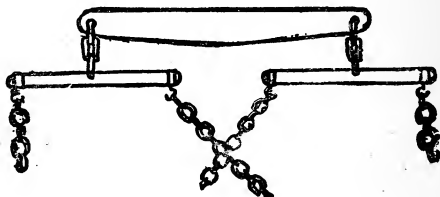
The suggestions are for practical solutions of the little problems of every-day life. They will save both time and money, and will add the interest of novel methods to the joy of accomplishing necessary tasks.

In preparing the book the author has taken care to save the reader time and trouble. The fewest words consistent with clearness have been used in every case. Illustrations make it doubly easy to understand the text. A complete index of the "short cuts" is printed in the back of the book.

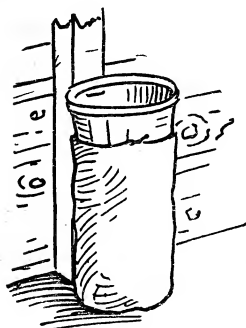
Johnson's Fact Book was designed as a "practical book for practical people," and as such we hope it will meet with approval and appreciation.

THE PUBLISHERS.

MAKING THEM PULL TOGETHER



When a team will not pull together, the following simple remedy will prove successful: Unhitch the inside traces and cross them, as shown in cut.



HOME-MADE BAG HOLDER

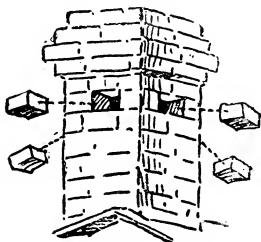
Take a nail keg and knock the bottom out; drive eight penny nails slanting upward from the inside and three inches from the bottom. Nail keg to a post or side of the barn like cut shown.

TO BREAK A DOG OF BARKING AT NIGHT

Hang a dinner or cow bell where the dog sleeps and have the string running to your own room and every time he starts barking pull the string. Try it and be convinced.

TO CURE A SMOKING CHIMNEY

A smoking chimney may be remedied by knocking out half a brick on each of its four sides, about one foot from the top.



MEDICINE STAINS ON SILVER

Medicine stains on silver spoons and silverware may be removed by rubbing with a rag dipped in sulphuric acid and washing with soapsuds.

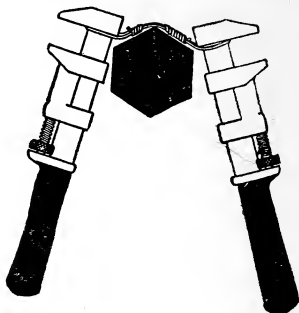
HOME-MADE FRUIT JAR OPENER



Take a common leather strap with a buckle. Pull it tight on the cover and buckle the strap as shown in cut.

EMERGENCY WRENCH

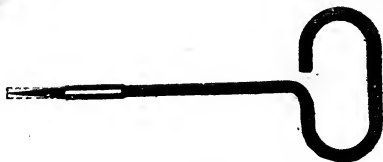
When you find that your wrench is too small to use, wire two wrenches together as per cut shown and you will overcome the trouble.



EASY WAY TO PROTECT A CHECK

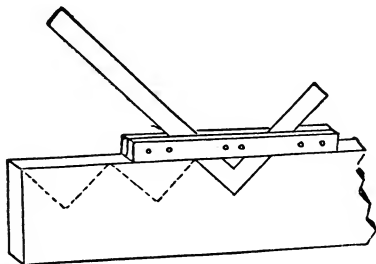
Write the amount of the check on the signature line in red ink, and sign your name in black ink over the red.

SEWING BURLAP



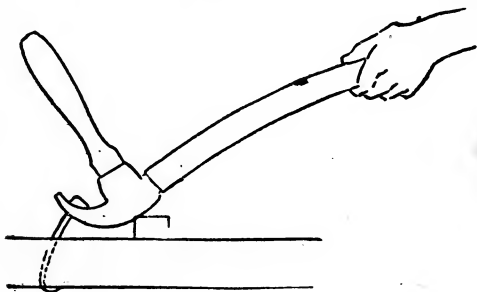
Grind a sharp point on a sardine can opener, and you will have a needle that will answer every purpose.

EASY WAY TO LAY OFF STRINGERS FOR BUILDING STEPS



Place clamp on square, making width and depth desired as shown in cut.

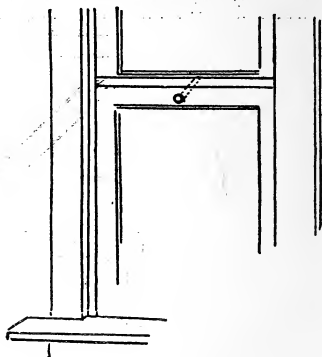
HANDY TOOL FOR PULLING SPIKES



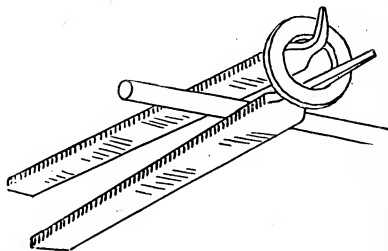
To overcome the danger of breaking handle of hammer while pulling spikes, bring into use a piece of old gas pipe 20 inches long and proceed as shown in cut.

HOME-MADE WINDOW LOCK

A simple and effective lock which is attached to the window sash by means of a screw.



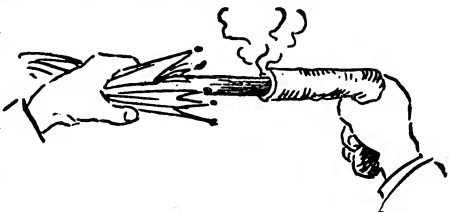
HOME-MADE WRENCH FOR TURNING A PIPE



If you haven't a pipe wrench handy, take two old files and an ordinary washer, as per cut shown.

TO MEND AN UMBRELLA

An umbrella with a steel rod that is loose in the handle may be mended by filling the hole

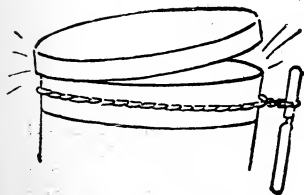


in the handle with powdered rosin and inserting into it the end of the rod heated sufficiently to melt the rosin. It will stay as well as if mended by an expert, who would mend it the same way.

MAKING COFFEE

Add a pinch of common table salt, as it will improve it greatly.

HOME-MADE CAN OPENER



We all know how difficult it is at times to remove a tight fitting cover on a lard can. Try this. Place a heavy cord around the can just below the cover, placing nail as shown in cut, and twist and your cover will come off easily.

AID IN THREADING NEEDLE

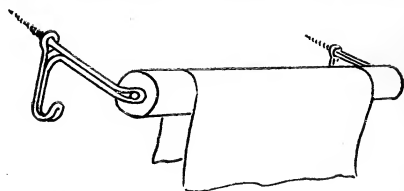
By using a piece of white paper as a background, a sewing machine needle may be sometimes much more easily threaded. Try it.



TO HEM NEW TABLE LINEN

Stiff new table linen may be easily hemmed by rubbing the upper edge with soap before sewing it on the machine. The soap softens the material, at the same time lubricating the machine needle.

HOME-MADE TOWEL ROLLER



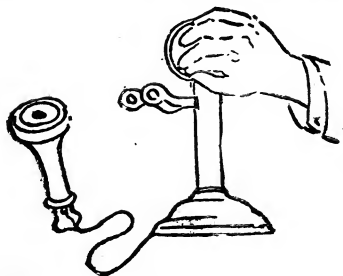
Take a couple of old clothes hooks as shown in cut and screw them in the wall. Cut an old broom to length desired, and drive six penny nail in the ends and cut the heads off. Easy to make and very durable.

TO PREVENT TAKING OF POISON OUT OF AN UNLABELED BOTTLE

Take a piece of ribbon or cloth and stick five or six eight-ounce tacks through same; then tie on neck of bottle, leaving the points sticking outwards as shown in cut.



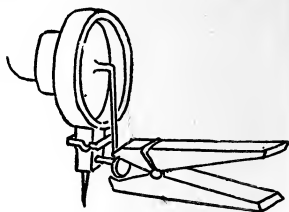
TO HEAR BETTER OVER A TELEPHONE



Place hand over transmitter while listening; by so doing you will overcome any local noise and will be able to hear much better what is being said.

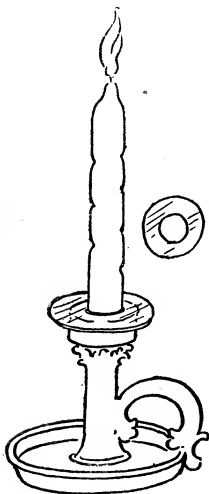
TO SOFTEN THE TONE OF A TALKING MACHINE

Use a common old clothes pin on the set screw as shown in cut. Try it and note the difference.



KEEPING CANDLE STICK CLEAN

Easy way to keep your candle stick clean is to cut a washer made from mica, or tin, to fit around base of candle to catch the tallow as it falls.

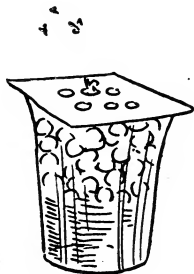


TO REMOVE MOLD OR MILDEW FROM WALLS

Dissolve in a bucketful of hot water, one pound of chloride of lime. Apply with a whitewash brush.

HOME-MADE FLY TRAP

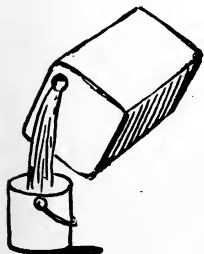
Fill glass two-thirds full of strong soap suds, with as much froth as possible. Take a piece of pasteboard large enough to cover the glass and punch four holes in center of board. Spread molasses on under side of pasteboard as per cut shown.



HOW TO SEW THIN FABRICS

If a paper is laid upon the machine and the stitching done through the goods and through the paper the work will be perfect. The machine needle will cut the paper so it will be the work of but a moment to remove it.

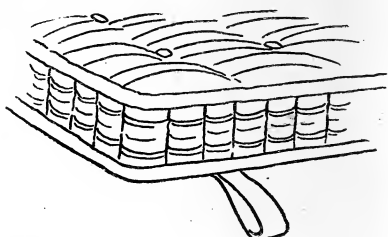
POURING OIL OUT OF A CAN



By pouring out of the top as shown in cut, you will find that it will flow freely, eliminating the necessity of having two holes in can. Try this and note the improvement over the old way.

STRAPS ON MATTRESS

Makes it much easier to handle. Sew one on each of the four corners. Make straps of heavy ducking.



WHEN BUYING LAMP CHIMNEYS

Very few people know it but there is a big difference in them. You will find that a third more light can be obtained if care is taken when buying. Best way is to take home 3 or 4 and try them out.

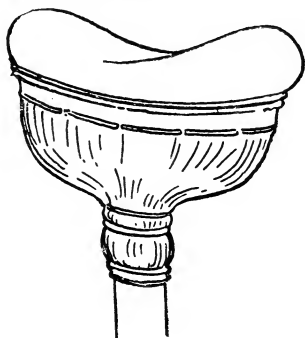
TO REPAIR HOT WATER BAGS



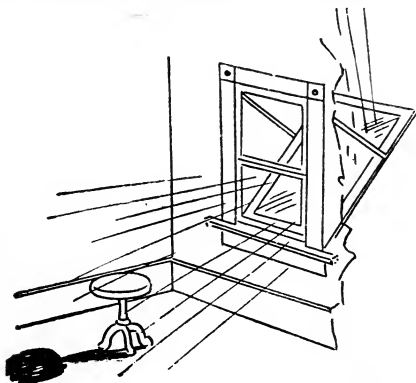
Don't throw away your old hot water bags, as they can be easily made almost new, by using several coats of liquid court plaster, letting each coat dry before putting on the next one.

HOME-MADE CRUTCHES

Use an old worn out broom as shown in cut; pad and cover same. Easy to make, is cheap and durable.

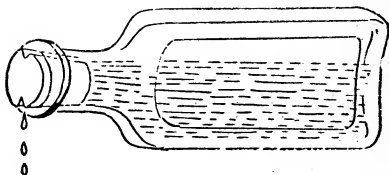


REFLECTORS FOR DARK ROOMS



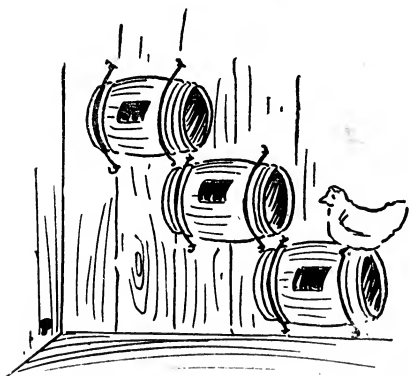
Swing mirror on outside of window as shown in cut, and note the difference in the light of the room.

HOME-MADE MEDICINE DROPPER



Make two V shaped grooves in the stopper as shown in cut. Size of grooves will depend on the character of the liquid in the bottle.

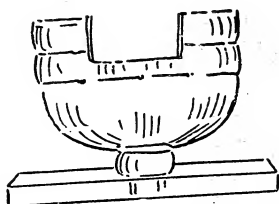
CHEAP HEN NESTS



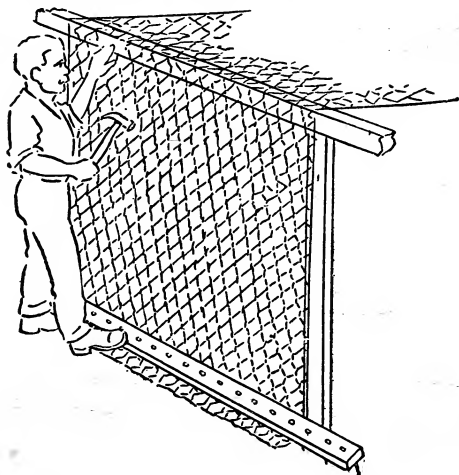
Wire nail kegs to wall as shown in cut, with number eight wire and a few staples. Bend wire around staple so the nest can be taken down and cleaned when necessary. The holes sawed in the side are to aid in removing hens.

HOME-MADE SHOE SCRAPE

Take an old worn-out broom and cut out the straw as shown in cut. Nail on step and you will have a very practical shoe scrape.



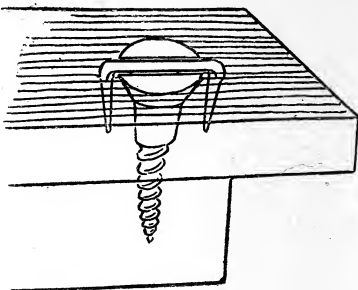
STRETCHING WIRE NETTING



To stretch wire uniformly tight, take a 2x4, 4 to 6 feet long, drive 16-penny nails through at a space of every six inches. Place the 2x4 on the wire and stand on same as shown in cut.

TO PREVENT SCREW FROM WORKING LOOSE

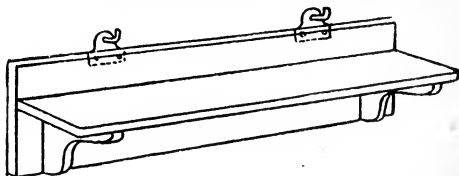
Drive a small staple over the head, fitting into the slot as shown in cut.



SPOOL STOPPER FOR GLUE BOTTLE

By cutting an ordinary thread spool in half you will have a stopper that will answer every purpose. Allow brush to pass through the hole in the spool.

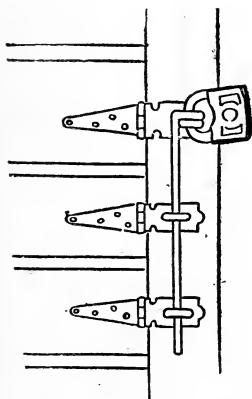
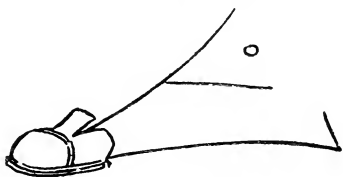
HOME-MADE SHELF



Don't discard the old buckets, as you can use the lugs of same to a good advantage when building your shelves in the kitchen.

TO KEEP PLOW POINT OUT OF GROUND

When going from one field to another, if you will take the toe of an old shoe and place same over the plowpoint as shown in cut, it will eliminate a great deal of worry.



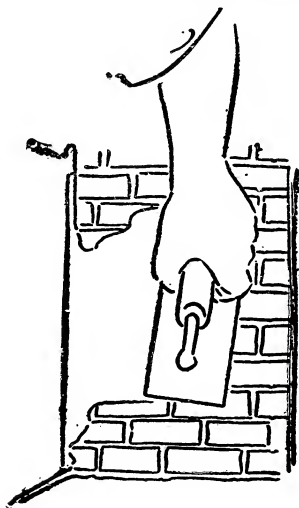
GOOD LOCK FOR DRAWERS

Use strap hinges. Bend pieces of iron as shown in cut.

SPREADING BUTTER ON SANDWICHES

No need of heating the butter. Heat the knife by placing same in boiling water. You will find it less trouble.

ADVANTAGE OF MIXING SALT IN MORTAR WHEN BUILDING A NEW CHIMNEY



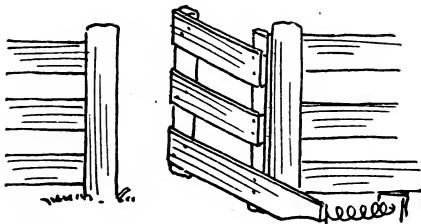
In building a chimney, put a quantity of salt into the mortar with which the inner courses of brick are laid. The effect will be that there will never be any accumulation of soot in that chimney. The philosophy is thus stated: The salt in the portion of mortar which is exposed absorbs moisture every damp day. The soot, thus becoming damp, falls down into the fireplace.

HOME-MADE HOOK FOR PULLING STRAW OUT OF HAY STACK



Take a piece of one-half inch round iron, six or seven feet long and make loop for handle at one end. Make fish hook point at the other end and you will have a tool that will not only last you a life time, but one that will pay for itself many times.

SELF-CLOSING GATE



A gate that will close itself can be made by making the bottom board project past the post and a stout spiral spring nailed to stake as shown in cut.

EASY WAY TO DRENCH STOCK

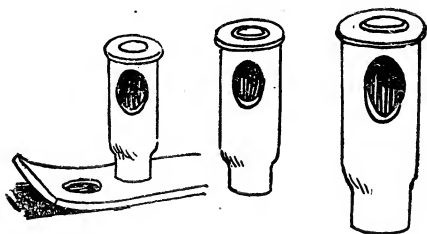
Take a piece of rubber hose 12 inches long and stretch over neck of bottle as shown in cut. You will find it to be an easy as well as safe way to drench stock.



TO KEEP SOW FROM EATING PIGS

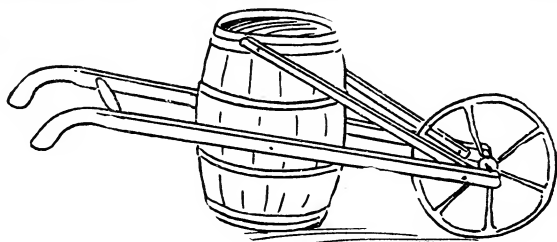
Take a rag and saturate it with kerosene. Rub the little pigs with this. The smell of the kerosene keeps the sow from eating the pigs.

A.HOME-MADE LEATHER PUNCH



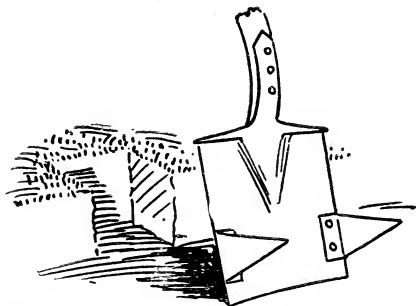
Can be easily made with a rifle cartridge shell, using the size shell desired. Holes cut in the side of the shell enable you to empty the shell of the leather without any trouble.

HOME-MADE TRUCK FOR SWILL BARREL



Use plow handles attached to any old discarded wheel, placing barrel between the handles as shown in cut.

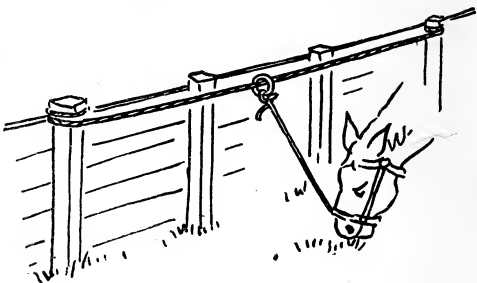
AN IMPROVED SPADE



Take a couple of old mower blades, heat and bend at right angle, rivet on the spade as shown in cut. You will find that it will make a clean cut on both sides.

GRAZING

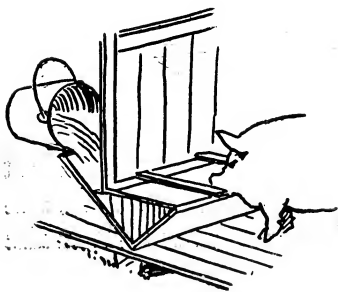
Place ring on rope and tie to halter as shown in cut.



A CHEAP PAINT

Take a gallon of skim-milk and add Portland cement in right consistency to spread well; same will make a drab color and will last for many years.

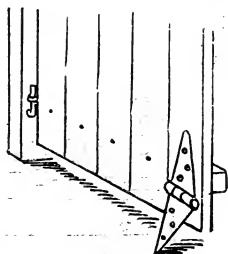
HOME-MADE HOG TROUGH



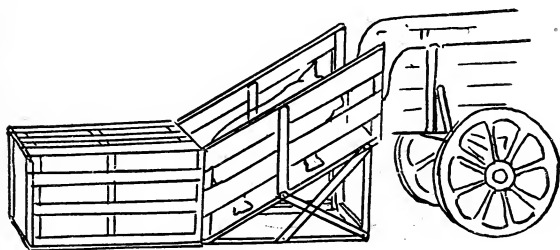
Cut shows how simple a sensible hog trough can be made. Any child eight or nine years old can slop or water the hogs as easily as can any grown person.

HOME-MADE STOP FOR GATE OR BARN DOOR

Fasten any old hinge to lower part of the door or gate, and when not in use turn back against the door or gate. You will find that it will hold it partly open and secure.



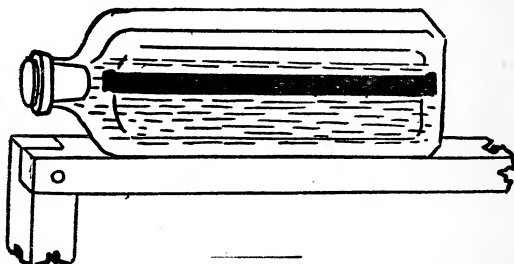
EASY WAY TO LOAD HOGS



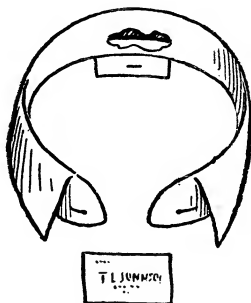
Make a chute ten feet long out of heavy timber, and the width of your wagon and drive your hogs in. It will save you time and money.

A HOME-MADE LEVEL

Paste a piece of paper oblong length on the outside of an 8 or 10 oz. bottle. Partly fill bottle and you will have a very good spirit level.



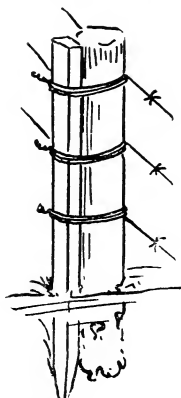
EMERGENCY BUTTON HOLE FOR WORN-OUT COLLAR



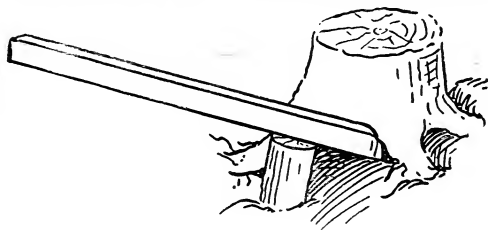
Punch hole in a small piece of cardboard and slip under band of collar, and use as shown in cut.

REPAIRING FENCE POST

When fence post has rotted off at the ground, take two pieces, one by three, and drive into ground and nail on opposite sides, as shown in cut.



HOME-MADE STUMP PULLER



Get a hard piece of timber, six by six inches and eighteen to twenty feet long, bevel down to three inches at one end and screw an iron plate on as shown in cut. Dig hole under the root of the stump and pry out. If your stumps are small, two men can do more in a day than three can with a machine. Try it and be convinced.

TO RAISE BODY OF A DROWNED PERSON

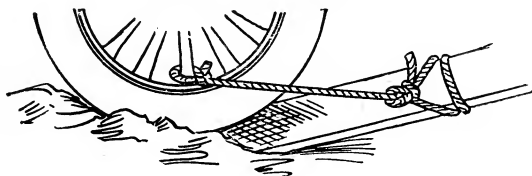


The following scientific method was recently used successfully in Oklahoma. Procuring a quantity of unslacked lime and some gallon glass jars, the German who had undertaken the job was rowed out to a spot near where the body went down. One of the jars was filled about half full of the lime, then filled with water, tightly corked and dropped into the water. It soon exploded. After the third trial, each in a different place, the body came to the surface.

RUST FROM STEEL

Take half ounce of emery powder mixed with one ounce of soap and rub well.

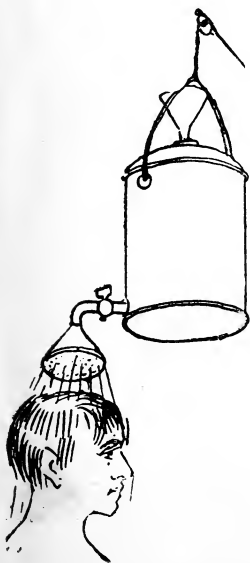
TO MOVE AN AUTO OR HEAVY TRUCK OUT OF MUD



Cut notches in one end of plank to prevent rope slipping and tie rope to spoke, placing board as shown in cut.

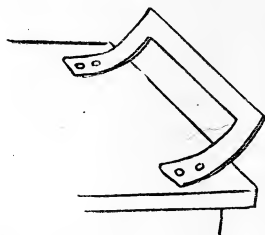
HOME-MADE SHOWER BATH

Buy a gasoline oil can from any hardware store and solder sprayer from an old sprinkling can on the faucet. By hanging on a small pulley you can lower and fill can without any trouble. If properly taken care of, will last a lifetime.

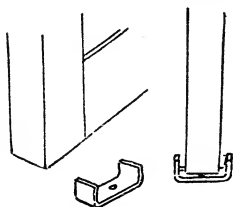


HOME-MADE SHOE SCRAPER

Bend an old piece of hoop iron and nail to bottom step. It is easy to make and will help keep the house clean.

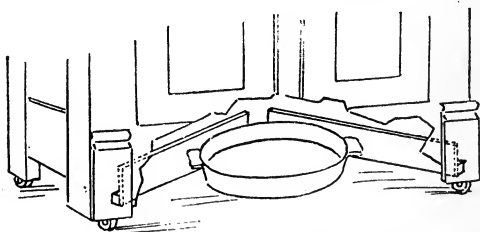


HOME-MADE DOOR STOP



Take a piece of common hoop iron and bend as shown in cut.

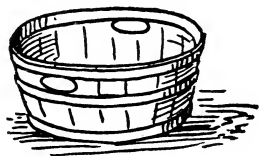
EASY WAY TO PLACE DRIP PAN UNDER REFRIGERATOR



Nail two small strips under refrigerator in a V shape as shown in cut, and drip pan will always be in the right place.

HOME-MADE BUSHEL MEASURE

Take a lime or cement barrel, measure 12 ½ inches up from the bottom and saw off. Place one hoop at top on outside and one in inside. Nail with 1½ inch nails and clinch. Place another hoop 2½ inches from top down on outside and clinch. Cut two holes, one on each side, for hand holds. Now you have a measure that will hold one bushel of potatoes level full.

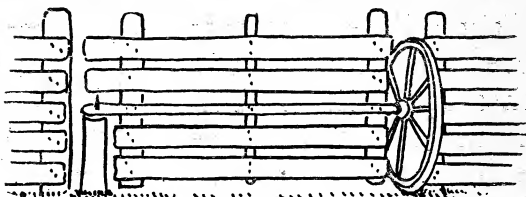


CASTRATING A LARGE BOAR



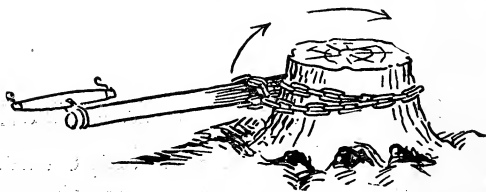
Use a large barrel, about the size of the hog. Put corn in and induce the hog to go in after the feed. When he is in let two stout men lift the barrel on end. The hog may then be handled with perfect safety and with less worry to man and beast. This plan has been tried and is recommended.

HOME-MADE GATE ON WHEELS



Make like the cut shown and it will last you a lifetime. Easy to make and costs very little.

HOME-MADE STUMP PULLER



Take a strong chain (a log chain will do) make a loop at one end, pass the chain around the stump and draw the other end of the chain through the loop, and fasten it near the end of a strong pole 2x4, 13 feet long, and hitch the team to the other end and bring them around in a circle. If the stump is very fast, dig the earth away from it.

TO REMOVE A LARGE ROCK



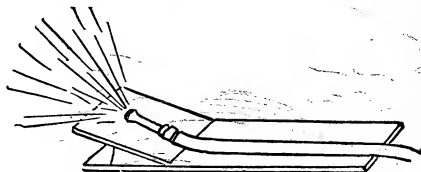
Dig a small ditch around same and partly under the stone, then build a big fire on it. When thoroughly hot throw 4 or 5 buckets of cold water over it. This is safer and less expensive than blasting it out.

HINGE TO MAKE DOOR CLOSE ITSELF



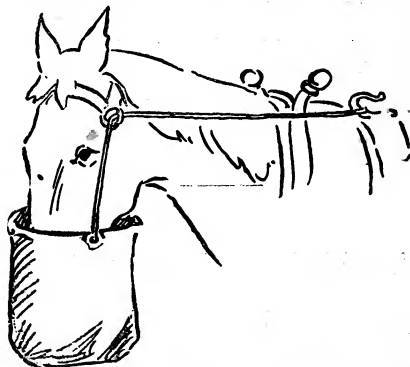
Bend the lower strap hinge a quarter to a half inch, the amount depending on the size of the hinge.

HOME-MADE HOSE HOLDER



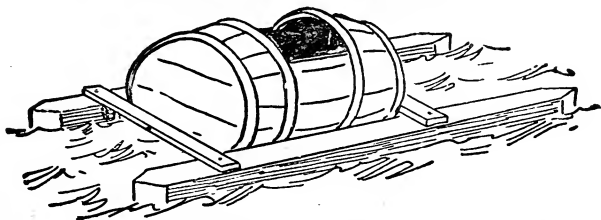
Use a piece of one by six, two feet long; attach another piece six or seven inches long at the end of the board at an angle of 45 degrees as shown in cut. You will find that it will make a very wide spray.

HOME-MADE FEED BAG



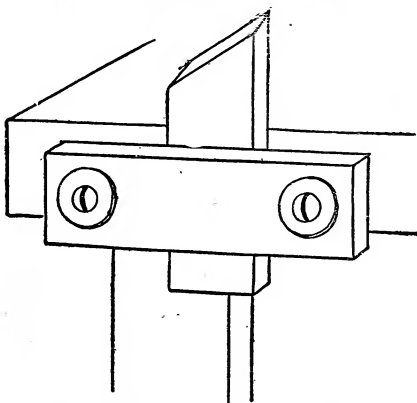
Use an old grain sack, with small piece of rope running through the halter or bridle and back to check rein hook like cut shown.

HOME-MADE BOAT



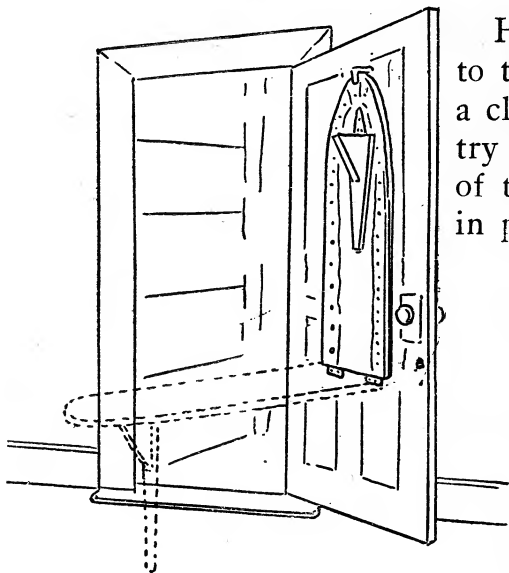
Cut a square hole 24 inches in a syrup barrel. Make frame of two boards, one by 12, 10 feet long, with cross pieces as shown in cut. Nail barrel to frame.

HOME-MADE VISE



Screw piece of wood to bench, placing washers under the screws as shown in cut.

EVER-READY IRONING BOARD



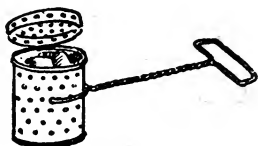
Hinge board to the inside of a closet or pantry door. Out of the way and in place.

TO REMOVE PAINT FROM WOOD

Half a cup of washing soda dissolved in a pint of water makes a very strong lye that will remove paint or varnish with a little scrubbing. The cleaned surface should be very thoroughly rinsed and dried before being repainted or varnished.

A SOAP SHAKE

Use a baking powder can. Punch holes in the can with an ice pick or some other sharp pointed tool, and attach a large wire to the center, twisting the ends to form a handle.

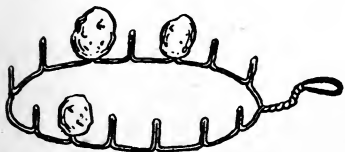


FOUNTAIN PEN MADE EASILY



Use two pens, place one above the other as shown in cut.

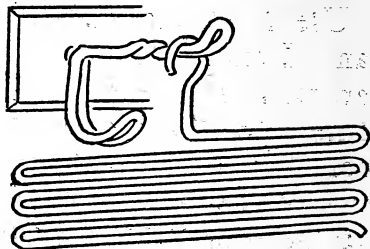
HOME-MADE POTATO BAKER



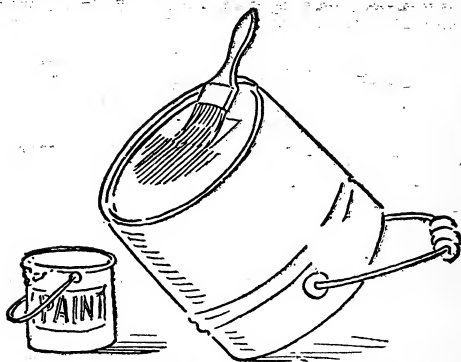
Use number six galvanized wire and bend same in circular shape as shown, turning points up one and one-half inches.

TROUSER AND SKIRT HANGER

Bend heavy wire as shown in cut.



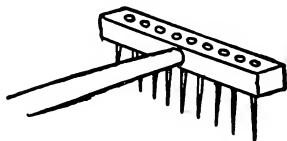
TO REPAIR LEAK IN A BUCKET



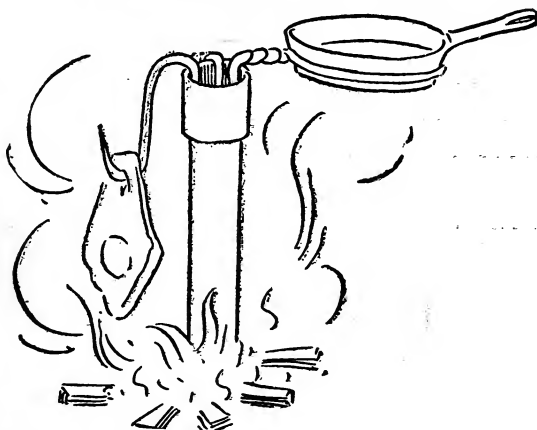
Daub a little paint over the leak on the inside and stick a small piece of cloth over it. After the paint is thoroughly dry, apply two more coats of paint, and you will have a bucket that will last for years.

HOME-MADE RAKE

Take a piece of two by three, 15 inches long, and bore holes with brace and small bit every two inches apart, using twenty penny nails. Nail small strip over top of rake to keep the nails from working loose and coming out. For handle use an old broom handle.

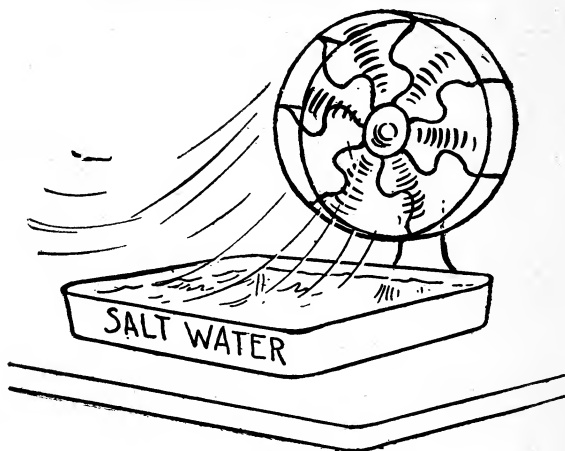


CAMP FIRE COOKING



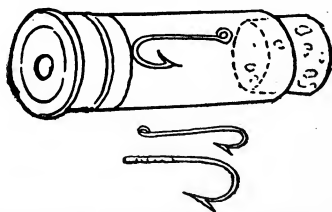
Use an old piece of gas pipe about 36 inches long, and drive into the ground to support wire holders. Use No. 6 wire.

IMITATION SEA BREEZE



Place shallow pan containing a saturated solution of salt before your electric fan; with fan tilted so air blows into the water.

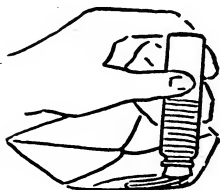
SAFE WAY TO CARRY FISH HOOKS



Take an empty shot gun shell and fit cork in the end as shown in cut.

ENVELOPE AND STAMP MOISTENER

Cut a sponge to fit a small medicine bottle or vial as shown in cut. Fill with water and you will find that it will answer every purpose.



TO REMOVE CORK FROM BOTTLE CONTAINING CARBONATED DRINKS



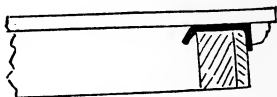
Make pad by folding towel eight times. Place the pad on the table and strike bottle with repeated blows as shown in cut.

FOR MOSQUITO BITES

Moisten a piece of common toilet soap and rub it over the spot. You will find the irritation will have disappeared in a very few minutes.

SIMPLE PROTECTION FOR SILLS FROM ROT

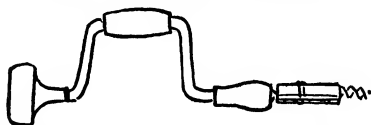
Any sills that are exposed to dampness can be covered with asphalt roofing and same will prevent the sill from decaying.



LEAKS AROUND CHIMNEYS

Leaks around chimneys may be stopped with a paste made of tar mixed with road dust. It should be applied to the shingles, where they join the chimney, so as to form a collar, throwing the water well onto the shingles.

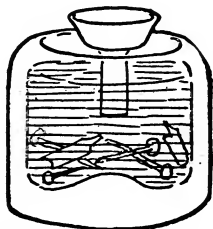
AN AUGER STOP



Stop is made of a piece of common pipe, that slips over the bit as shown in cut. It is a good idea to have on hand some six or eight different lengths of pipe so as to be able at all times to bore hole any desired depth. You can never bore a hole too deep when using this stop.

TO PREVENT INK FROM CORRODING PEN POINTS

Place broken pen points in the well. Same will destroy all acids and overcome the trouble.



TO REMOVE ROAD TAR FROM AUTOS

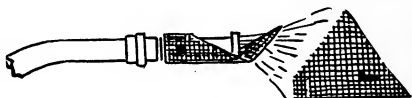
One part alcohol, three parts fusel oil and four parts of benzol applied with a piece of cotton waste, will take road tar off, however, use only a small quantity and wipe off in 5 or 6 minutes so as not to hurt the paint.

GOOD TYPEWRITER DESK



Use an old discarded wash-stand, sawing out the drawers as shown in cut. Easy to make and saves the cost of buying a new one.

HOME-MADE HOSE NOZZLE

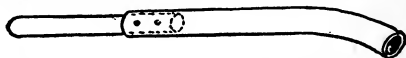


An easy spray can be made by bringing into use a piece of triangular shaped, galvanized wire netting as shown in cut.

TO MAKE WHITEWASH STICK

And at the same time to prevent it from cracking, add two and one-half ounces of pure sodium chloride to every gallon. Be sure and get the pure sodium chloride or else it will not come out a clear white.

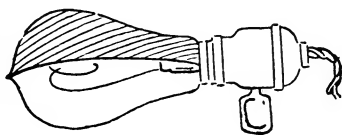
HOME-MADE CARPET BEATER



Here is one of the best carpet beaters one can possibly use; it is easy to make and will last for years. Take an old broom handle about 12 to 14 inches long and trim handle down to fit the hose, and then tack it in place to prevent slipping out. Use any old piece of hose 18 to 20 inches long.

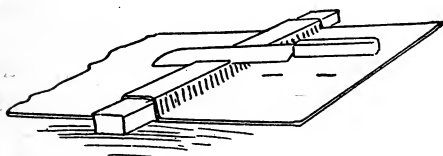
SHADE FOR AN ELECTRIC LIGHT GLOBE

Place a piece of tin foil on one-half of the globe as shown in cut. An-



swers every purpose and costs nothing, as you can get the foil at any grocery store for the asking.

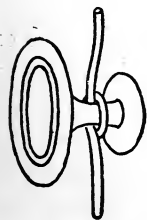
HOME-MADE BUTTONHOLE CUTTER



Take a piece of wood the width you want button holes made, lay the cloth over it,

and cut with sharp knife. You will find that it will cut the cloth neater than with a pair of scissors.

EASY WAY TO KEEP BUTTONS ON OVERALLS



When the button tears out of the goods, simply bend wire as shown in cut on the back side and you will no longer be worried with the button coming out.

PRINTING MONOGRAMS ON FRUIT

From an anonymous source we get the following very simple method of doing a trick that to the uninitiated will seem to border on the marvelous:

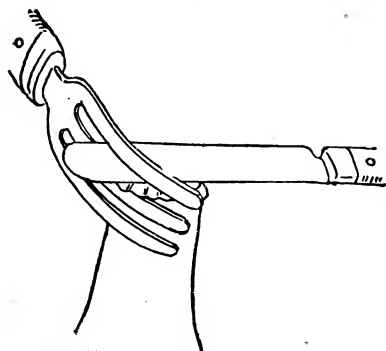


Monograms, initial letters, or other designs, can be printed on such fruit as apples, pears or peaches by the action of the sun, with very pretty effect of either a light or dark color. To do this, draw the monogram, letter or design on a piece of writing paper, and paste it with mucilage or glue upon the side of the fruit exposed to the sun just before the fruit begins to color. When the fruit is ripe, and the paper is removed, the design will appear in a lighter or different color to the rest of the fruit; as, for instance, if the experiment is tried on a yellow-fleshed peach with a red cheek, the design will appear in gold, surrounded with red.

If the opposite effect is intended, take a small oval or circular piece of paper, and cut out or pierce the letter or design in it, and paste on the fruit, which, when ripe, will have the design in high color on a yellow or on a light green ground of the shape of the piece of paper, and this again will be surrounded by the brighter color of the fruit.

HOME-MADE BOTTLE OPENER

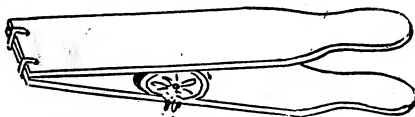
Use knife and fork as shown in cut. Easy to handle and does the work.



PAINT SPOTS FROM CLOTHING

Saturate with equal parts turpentine and spirits of ammonia.

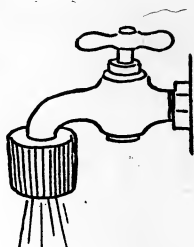
HOME-MADE LEMON SQUEEZER



Cut two boards into the shape of a paddle; have them 3 inches wide and one-half inch thick and 18 inches long. Bore two holes in one end as shown in cut and run wire through and twist the two ends together. This squeezer can be used for any kind of fruit.

TO PREVENT BREAKING OF DISHES WHEN WASHING

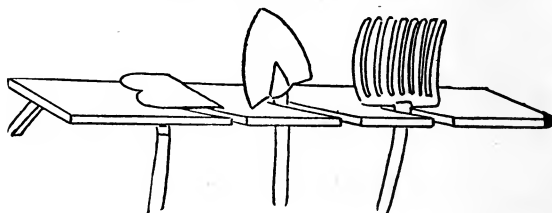
Cut a small piece of rubber hose and slip over the faucet.



EASY WAY TO CLEAN A GUN

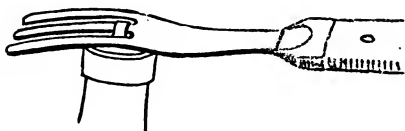
Wipe out your gun with a rag that is soaked with mercurial ointment. It will not only prevent the rusting of same, but will loosen whatever lead there may be in the barrels.

HOME-MADE RACK FOR TOOLS



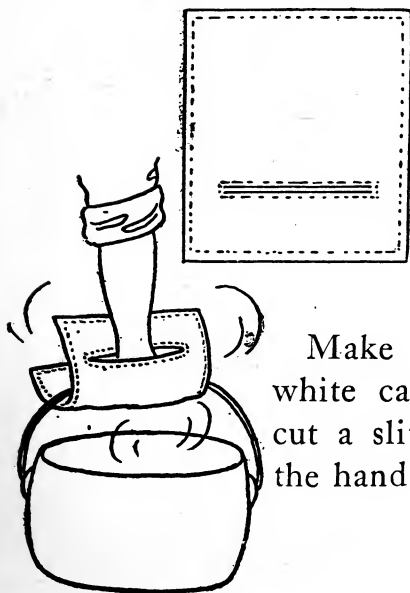
Saw six inches into a 1 by 12 board, making a slot as shown in cut; slots to be every six to eight inches apart.

TIGHTENING A CURTAIN POLE



Use a common table fork as shown in cut.

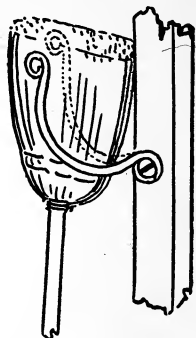
KITCHEN CONVENIENCE



Make a four-ply pad of white canton flannel, and cut a slit to accommodate the hand as shown in cut.

A HOME-MADE BROOM HOLDER

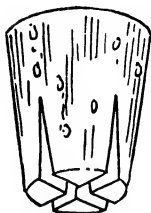
Bend a piece of number eight or ten wire as shown in cut and tack on wall or door.



REMOVING GREASE FROM PAINT

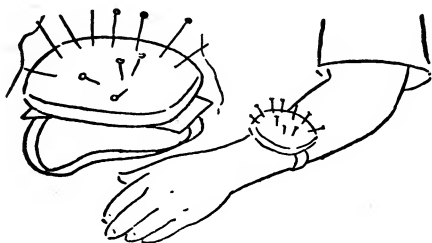
A good and cheaply applied method is to rub the painted surface with a paste of ordinary whiting. This is allowed to dry and when it is rubbed off with a cloth the dirt and grease is taken away with it. Whiting is cheap and can be purchased at any drug store.

TO FIT LARGE CORK IN BOTTLE



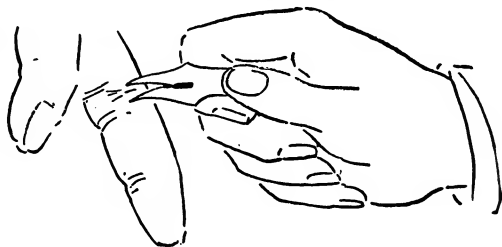
If you have not a cork small enough to fit the bottle, a very good substitute can be made in the following manner; slit with pocket knife as shown in cut.

HANDY PIN CUSHION



Sew piece of elastic to a small pin cushion to fit the wrist as shown in cut.

EASY WAY TO REMOVE SPLINTERS



Take a common steel pen point and press it down on the flesh about one-third of an inch away from the splinter, then push it on over and catch the splinter between the points as shown in cut.

HOME-MADE SWING MADE OF COMMON CHAIR

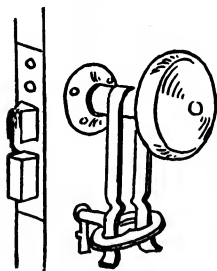
Use one half inch rope and tie as shown in cut. Makes a nice porch or lawn swing.



FRESH TOMATOES THE YEAR 'ROUND

Freshly gathered tomatoes, packed in dry salt, in an earthen jar, it is said, will keep almost indefinitely.

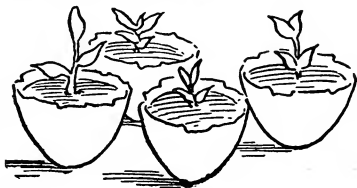
HOME-MADE BURGLAR-PROOF LOCK



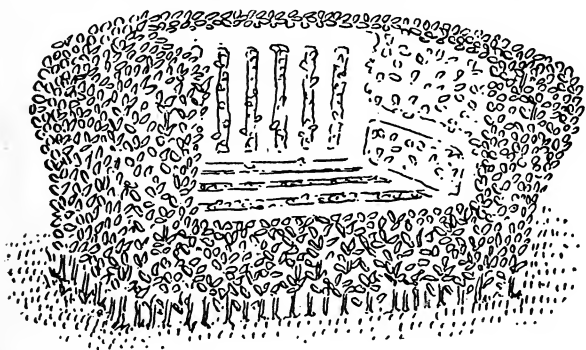
To prevent a burglar from turning the key with his plyers, bend a heavy piece of metal in the shape of a hair pin like the cut shown.

PLANTING EARLY SEEDS

Plant in egg shells filled with dirt, when seeds are up, replant egg shells in the ground without disturbing the roots.



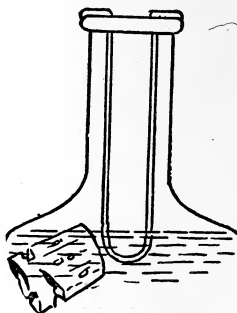
PRETTY SETTEE FOR A LAWN



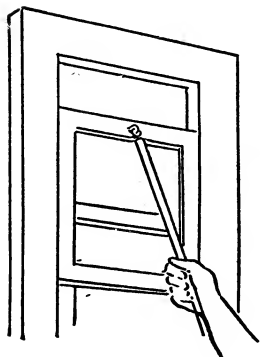
Use an old discarded wood or iron settee, and allow hedge to grow through it, trim from time to time, and it will only be a matter of a season or two before you will have something that is very useful as well as ornamental.

TO KEEP CORK OUT OF THE WAY

When you push the cork down into the medicine by mistake, use an old hairpin as shown in cut and notice how easily the contents will pour out after that.



EASY WAY TO LOWER WINDOW



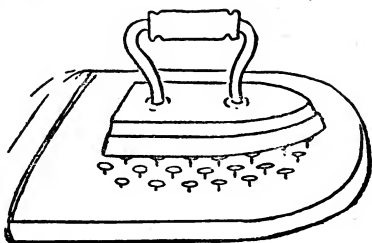
Cut an old mop stick the length of sash; fasten stick to top sash with a small staple, using small screw eye in end of stick.

A SPLENDID REMEDY FOR HORSE COLIC

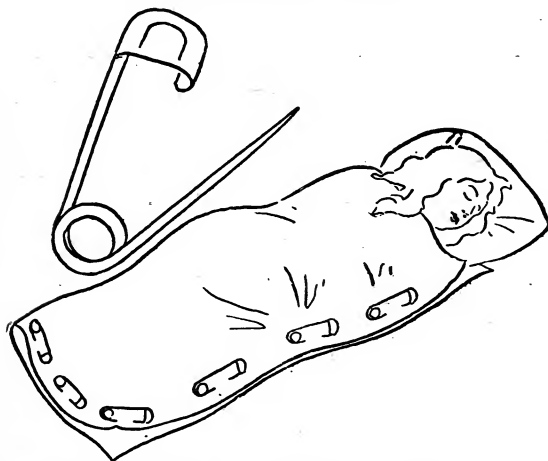
Aromatic spirits of ammonia, $\frac{1}{2}$ oz; laudanum, $1\frac{1}{2}$ oz; mix with one pint of water. If not relieved in one hour's time repeat the dose.

IRON REST

Drive small flat-headed nails in the board.



A SLEEPING BAG



Double an ordinary blanket and pin up one side and the bottom with large horse blanket pins.

FOR NEIGHBOR'S HENS

Take some kernels of corn.

With a darning needle bore a hole in each of them, tie a string



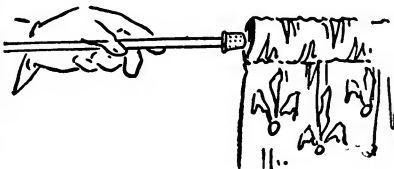
about 12 inches long to them. On the other end tie a common shipping tag, on which is written: "We are at neighbor Jones'; their chickens are locked up, but we had lots of fun scratching out the sweet corn and other nice seeds in his newly-made garden." Now throw this corn where the chickens will get it; they will swallow the corn, but not the tag. The owner of the poultry will see the tag, and read it. The novelty of the warning will, if anything, cause him to keep his poultry at home, and save you much annoyance.

LINEN—MILDEW

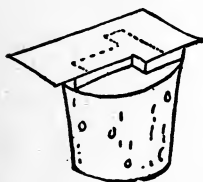
May be restored by soaping the spots while wet, covering them with fine chalk scraped to powder, and rubbing it well in.

TO INSERT ROD IN CURTAINS

Place tip of an old glove on the end of the rod. You will find that this will save you time and worry.



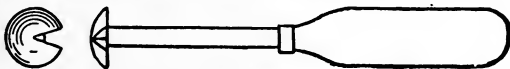
HOME-MADE STAMP



A very good substitute for a rubber stamp can be made in the following manner: First draw the letter or letters desired and paste same on the small end of a com-

mon bottle cork and cut the letters out with a sharp knife as shown in cut.

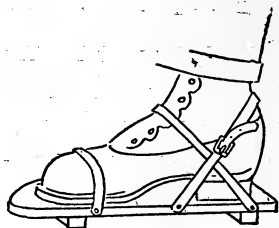
HOME-MADE TACK PULLER



Take a round headed bolt and file a V shape notch in it and screw the bolt into any old wooden handle, and you will not only have a very durable tack puller, but the best that is made.

WOOD SOLES FOR DAMP FLOORS

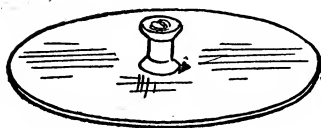
Cut piece of board about the size of the shoes, tack straps on as is shown in cut.



TAKING CAPSULES

Take a spoonful of thick milk or cream, put the capsule in center of it and cover with milk or cream. Then swallow it as though it were only milk.

TO MEND A POT COVER



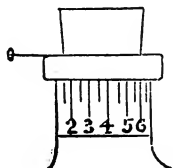
Use empty spool; and start screw from under side of the cover up into the spool.

TO KEEP CLOCK CLEAN

Saturate a pad of cotton with kerosene and lay it inside on a small dish so as to prevent the woodwork from being saturated. The kerosene oil is an absorbent.

BOTTLE INDICATOR FOR MEDICINE

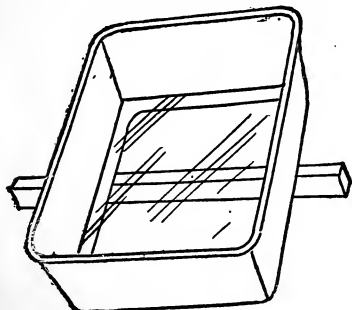
Paste a strip of paper around neck of bottle. Print numbers from 1 to 12. If necessary to give the medicine on the half hour why place dot between. Stick pin in cork as shown in cut, and move around to the time when the next dose is to be given. Try it and be convinced.



AN IMPROVED BREAD KNIFE

Place the blade in a vise and notch same with file every one-fourth of an inch. You will find that such a knife will cut the bread better and much faster than the straight edge.

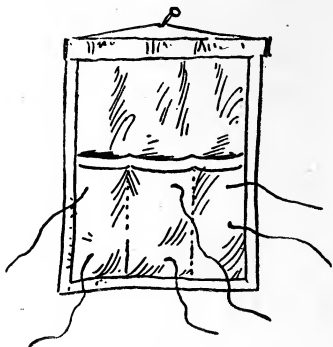
CAKE PAN BOTTOM OF GLASS



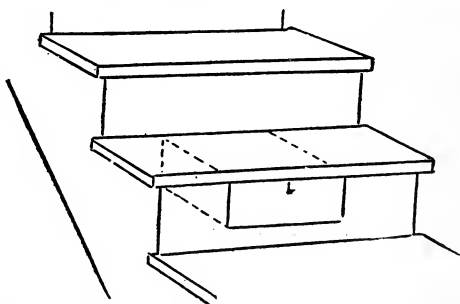
Cut the bottom of the pan out, leaving enough of an edge for the glass bottom to rest on. Cut glass to fit bottom. You will find it easy to keep clean and will enable one to examine the cake when baking.

HOME-MADE POCKETS FOR SPOOLS

Made out of any kind of heavy cloth, and with as many pockets for thread as may be desired. Easy to make and inexpensive.



SECRET DRAWER

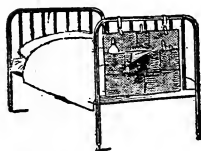
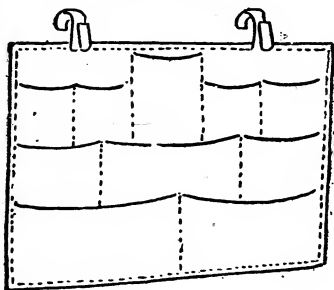


Can be built in a step in the stairs with very little trouble and at a very small cost.

REMOVING GREASE SPOTS FROM FLOOR

Sprinkle unslaked lime on the grease spots, cover with coarse brown paper and iron with a very hot iron. It is well to let the iron stand on the spots a few minutes.

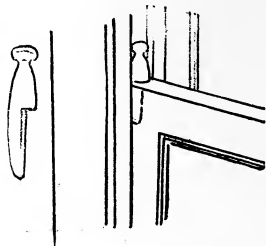
A HANDY POCKET TO HANG ON FOOT OF BED



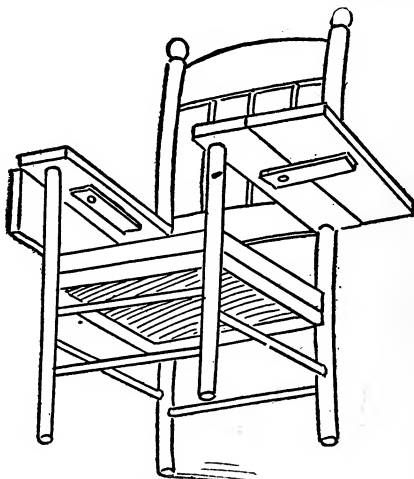
A useful receptacle for an invalid, to be made of demin, linen or any heavy material as shown in cut.

HOME-MADE ANTI-RATTLER FOR WINDOW

Break one prong of a common clothes pin. Easy thing to do and will overcome the trouble.



A GOOD KITCHEN CHAIR



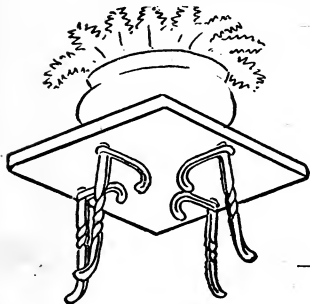
Hinge arms on as shown in cut. Very little trouble to make, and the busy housewife will find it a great convenience.

TO SEPARATE GLASSES WHEN STUCK TOGETHER

Set glasses in a pan of warm water and pour cold water in the top glass.



HOME-MADE FLOWER STAND

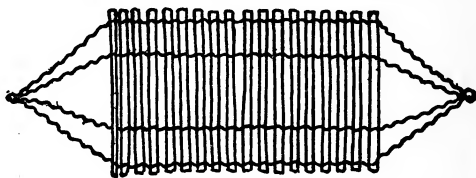


Use four clothes hooks as shown in cut. Easy to make and inexpensive.

EASY WAY TO CLEAN YOUR PIPE

Why not clean your pipe by using the air at the garage when filling your tires. Will save you a lot of work and better still it is something that doesn't cost anything.

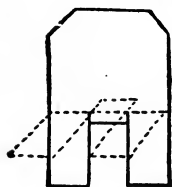
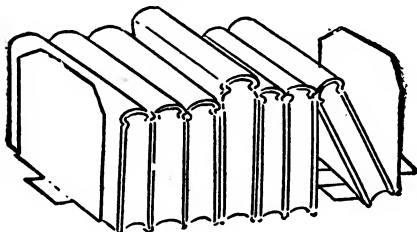
HOME-MADE HAMMOCK



Take twenty-five or thirty old barrel staves and bore two half-inch holes in each end of the staves, running wire through as shown in cut.



HOME-MADE BOOK RACK

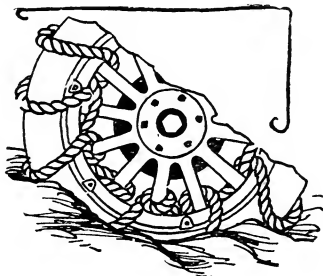


No 1

Cut a piece of galvanized iron, or heavy tin, as shown in cut No. 1. Bend the two pieces as per dotted lines. Size of iron to be 15x7.

GOOD THING TO KNOW

When you are having trouble in sand, bring into execution a stout rope wound around tires of rear wheels as shown in cut.



SMELL OF PAINT—TO REMOVE

To get rid of the smell of oil paint, place a handful of hay in a pailful of water and let it stand in the room newly painted.

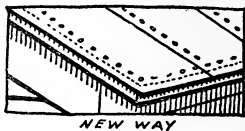
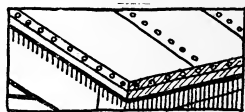
PROTECTING TREES



Take six sheets of old newspaper and tie with cord at foot of young trees as shown in cut. Do not use tar paper, as it will scald the bark.

BEST WAY TO PUT ON ROOFING

Better wear and protection is given by setting the roofing so that it has an overhang at the edges of the roof instead of being nailed solidly along the edges, which causes the water to be thrown clear of the edge.



HOME-MADE SHOE POLISHER

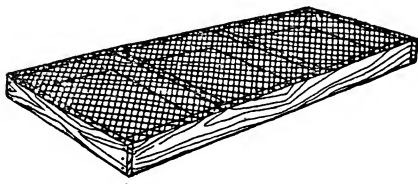


Made from an old barrel hoop and a piece of flannel or felt. Easy to make and answers every purpose.

EASY WAY TO FIT KEYS

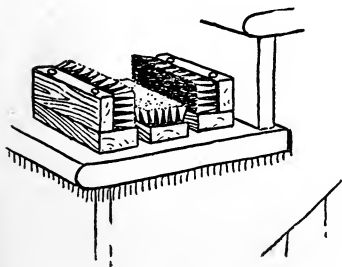
Hold the blank key over a candle until it is thoroughly blackened, then insert it in the lock carefully and turn until it strikes. Pull the key out and file away the parts where the soot was rubbed off by the wards.

GROWING GREEN STUFF FOR CHICKENS



In back yards where chickens are confined, green food may be grown if protected by a frame covered with poultry netting. Size of frame eight feet wide and twelve to fourteen feet long. Plant any of the following: Wheat, oats, barley, rape, clover or alfalfa.

HOME-MADE SHOE CLEANER



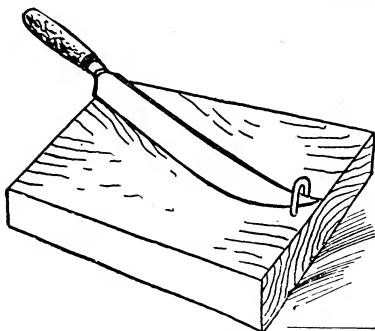
Take three old brushes and nail them to step as shown in cut.

SHOVEL WITH A SHOE GUARD

Take a piece of old gas pipe and saw it open on one side, and by spreading it properly and springing it onto the shovel blade you will find it will remain in place.



KITCHEN CHOPPING BOARD



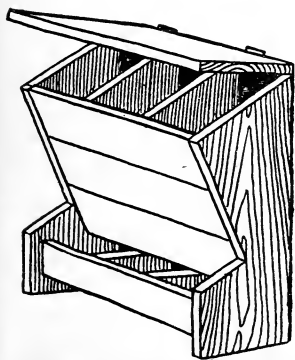
A very useful article for the kitchen and easily made, requiring a piece of hard wood, a pointed kitchen knife and a large staple.

DANGEROUS MUSHROOMS

Before cooking mushrooms, first sprinkle salt on the spongy part, or gills. If they turn yellow, beware as they are poisonous fungo.

TO CLEAN COAT COLLARS

Use spoonful of ammonia in which enough salt has been put to make it a mushy mixture. You will find that it will remove all discolorations. This is very poisonous if taken internally.



A GOOD FEED HOPPER

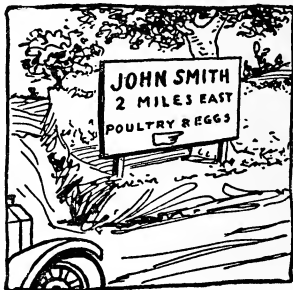
Easy to make and inexpensive, and saves you both time and money.

GOOD THING TO KNOW REGARDING MILK

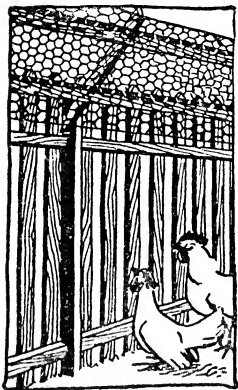
It is much safer to drink or use herd milk than milk from a single cow. An explanation is, that the tuberculosis germ does not survive long when mixed with a quantity of healthy milk.

SELLING TO AUTOMOBILISTS

The farmer can work up a very profitable business with passing motorists by erecting a signboard where two automobile highways cross.



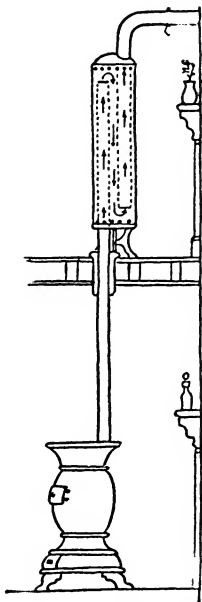
ECONOMICAL POULTRY FENCE



Use the present fence you have and run a 24-inch wide poultry netting at top as shown in cut. Answers every purpose and means a saving of two-thirds in cost.

TO CONSERVE HEAT

Use an old kitchen tank, and have the plumber to cut a hole the size of a stove pipe in one side of the top and a similar hole in the opposite side of the bottom. Set the boiler upstairs directly over the stove on the first floor. Run pipe through the floor and up through the boiler nearly to the top. Start your second pipe near the bottom (as the cut shows) and run clean on up to the chimney. Put in a damper above the top of the tank to control the draft. As a safeguard, use a burnt clay pipe crock around the pipe that runs through the floor, to protect yourself from fires.



SCORCHED FOOD

Will not be injured if the pan containing the food is set at once in a basin of cold water for a little while.

TO REMOVE SPLINTERS FROM HAND

Fill a wide mouth bottle nearly full of hot water. Place injured part over the mouth and press it slightly. Action of the steam will expose the splinter.



TO PREVENT EGGS STICKING

Eggs will not sink to the bottom of the pan and stick when poaching, if the pan or other vessel is greased before pouring in the water.

TO MAKE HEALTHY HOGS

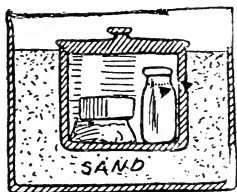


Use the following mixture: One bushel of soft coal, one bushel of ashes, eight pounds of salt, four pounds of sulphur, four pounds of air-slacked lime and two pounds of copperas. All ingredients except the copperas are mixed together. Dissolve copperas in warm water and add to the mixture.

TO KEEP MILK AND BUTTER COOL

All you need is a box and a jar or crock with a cover to it. Set the crock in the box and pack sand around it, and keep the sand moist at all times.

You will find the milk and butter will keep better than in a refrigerator.



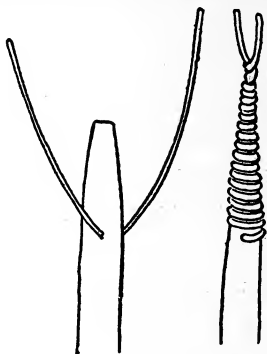
TO CLEAN ALUMINUM WARE



Dissolve 2 ounces of lump of ammonia in one quart of water; 2 ounces of salt of tartar in one quart of water and a 15 cent can of potash in two quarts of boiling water. After all is dissolved mix as follows: First add the potash and ammonia together, then the salt of tartar and boil the whole mixture for forty minutes. Put a small quantity in the vessel to be cleaned on the stove and let it boil five minutes and then rinse out thoroughly.

MAKING SHOE LACE TIPS

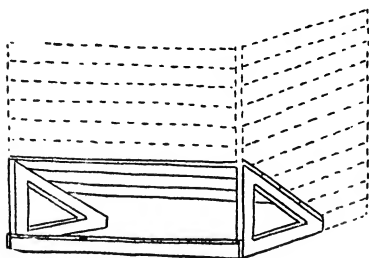
Use fine wire and twist around the shoe string as shown in cut.



TO EXTINGUISH A KEROSENE FIRE

Never throw water on the flames of kerosene, gasoline, benzine or other petroleum products. Use a quart or as much milk as you have handy. Milk forms an emulsion with the oil and will exterminate it immediately.

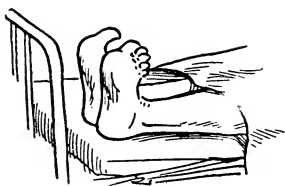
CONVENIENT COAL BIN



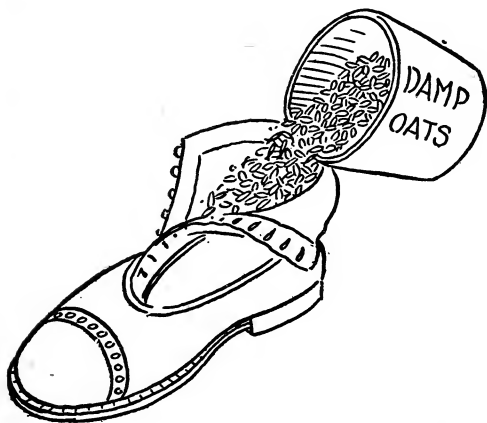
To prevent coal running out of a bin on the floor, make an opening in front as per cut shown.

CRAMPS IN YOUR LEGS WHEN IN BED

In order to overcome the trouble of getting out of bed on a cold night to relieve yourself of cramps in your legs, bend your toes back as far as possible as shown in cut.



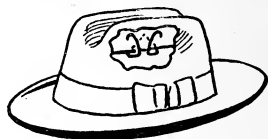
EASY WAY TO STRETCH SHOES



Pack damped oats in the shoes. Leave oats dry out before removing.

TO KEEP CREASE IN HAT

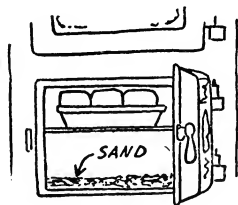
Use a common paper clipper as shown in cut. Try it and note the difference.



BENDING SEWING NEEDLES

Sometimes a needle is wanted for sewing shoes or harness. A straight needle may be bent by taking the temper out of it by heating it in a gas or lamp flame. After it is bent into the shape desired, the temper may be restored by again heating and placing it while hot in a bath of water or oil.

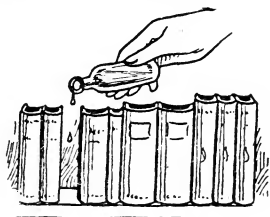
TO PREVENT PEANUTS FROM SCORCHING



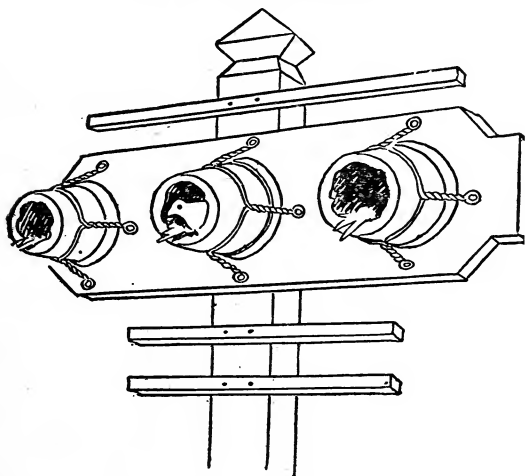
Spread one-half inch of sand on bottom of oven, putting peanuts on the sand. Not only roast better, but if stirred every now and then will never burn.

TO PREVENT MOLD IN LIBRARY

A few drops of lavender will save a library from mold; a single drop will save a pint of ink.



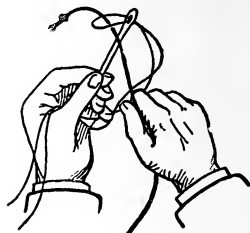
BIRD HOUSES



Use flower pots, break holes in the bottom large enough to allow birds to enter. Take No. 6 wire and pull tight around the pots with a pair of pincers. Staple the wire to the board as shown in cut.

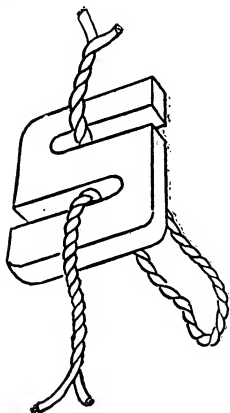
THREADING A DARNING NEEDLE

Double the thread and pass through the eye and pull the yarn through as shown in cut.



TO TEST WHITE LEAD

Place a little on a stick and set the stick on fire. If it forms a white crust on the stick it is not pure lead and has a filler in it. When the lead is pure it will appear in small globules like shot.



TO ADJUST DROP LIGHT TO HEIGHT DESIRED

Saw slits from opposite sides just large enough to admit wire. This will enable you to raise or lower the light to any length desired.

HOME-MADE POWDER LICE REMEDY

One of the cheapest lice powders for poultry is made by mixing three parts of gasoline and one part crude carbolic acid with as much plaster Paris as the liquid will moisten. Allow the powder to dry before using. The powder is inflammable and must be kept away from fire.



TO PREVENT HORSES GNAWING ON STALLS

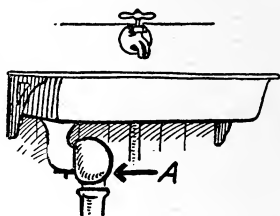


Melt up some tallow and apply with rag on place where they have been gnawing. Do this every evening for a week's time, and you will break them of the habit.

TO MEND LEAD PIPE WITH CEMENT

Place about two-thirds of a cup of cement on a cloth and tie it around the pipe. The leak will dampen the cement and will close up the leak.

Remove the piece of cloth after cement sets.



CLEANING A STRAW HAT

Apply corn meal that has been made slightly damp and with a medium stiff nail brush rub the meal in well. Change the meal as fast as it becomes soiled. Brush off the meal while still damp and dry hat in the sun.

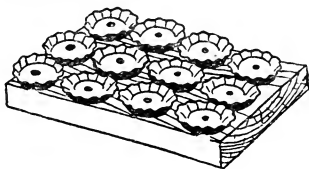
IMPROVEMENT ON DOUBLETREES



To avoid sudden shocks that will come when wagon is heavily loaded and on rough roads, if you will bring into use a common old buggy spring and bolt same to doubletree, as shown in cut, it will save your team from sore shoulders.

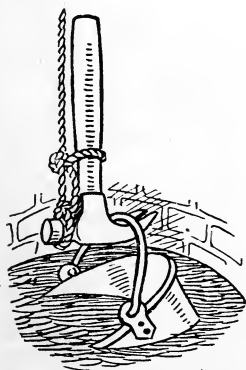
GOOD FISH SCALER

In your hurry to get away, if you discover afterwards that the handy curry comb has been left behind, why utilize a few Coca-Cola bottle caps tacked on a block of wood three or four inches wide. Easy to make and does the work.



NAILS IN HARD TIMBER

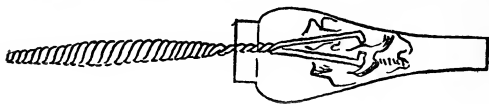
To prevent nails from bending when being driven into hard timber, pour hot tallow over them, and when they cool you can drive them into the hardest of posts.



TO GET BUCKET OUT OF WELL

Tie claw hammer to rope, which gives you a good grab hook and you will encounter very little trouble in fishing the bucket out.

HOME-MADE CHIMNEY CLEANER

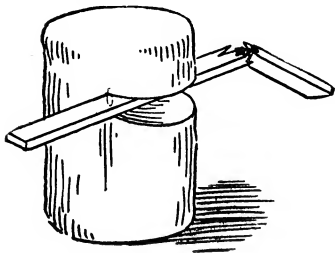


You can make a very satisfactory lamp chimney cleaner out of number eight wire, twenty-four inches long, by bending it as shown in cut.

CURING HORSES FROM INTERFERING

Have the inside calk of the shoe larger than the outside and pare the outside of the foot lower. This will cause the pastern joint to be thrown out and prevent the other foot from striking.

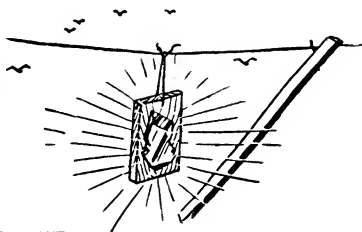
EASY WAY TO BREAK KINDLING



Make post stationary and saw a notch about 10 inches deep, tapering two and one-half inches on the outside to inch at the bottom as is shown in cut.

TO KEEP BIRDS OUT OF GARDEN

Hang up a mirror on a line and the reflection when it swings around will run the birds off.



CURE FOR COLIC IN HORSES

Put into a long-necked bottle a pint of warm milk, into which has been dissolved three heaping teaspoonfuls of cooking soda. Drench the horse with this. Repeat in about ten minutes if necessary. This is said to be a very effective remedy.

TO CURE NEURALGIA

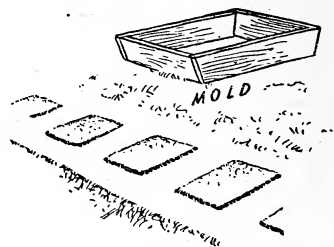


Take the white of an egg and spread it on a piece of soft cotton cloth, sprinkle pure

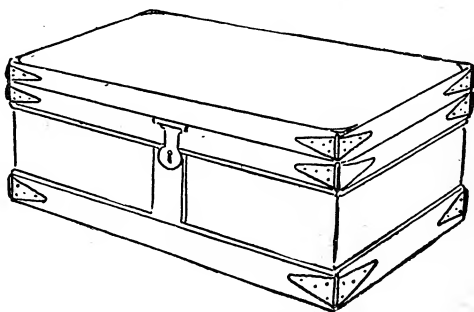
ground black pepper over it until it is almost black, then bind it to the affected parts. When the trouble is in the head, bind it on the temple.

STEPPING STONES TO THE BARN

Make mold out of box, fill same with mixture of cement and sand and when cement becomes hard, set stones level with the ground eighteen inches apart. You will find they will last for years.



CORNERS FOR CHEST



Any chest that is heavy and much handled can be strengthened by reinforcing the corners with common strap hinges as shown in cut.

WEIGHT FOR HOLDING TEAM OF HORSES

A good weight can be made by filling an empty lard bucket with cement, and at the same time sticking into the cement when wet a common old horse-shoe. When the cement sets it will be impossible to pull the horseshoe out.



TEMPERING LAMP CHIMNEYS

If lamp chimneys are put in cold water and the vessel containing them is placed over a fire and the water brought to a boil, the glass in the chimneys will be tempered so that they are much less liable to break.

TO LUBRICATE A DOOR LOCK



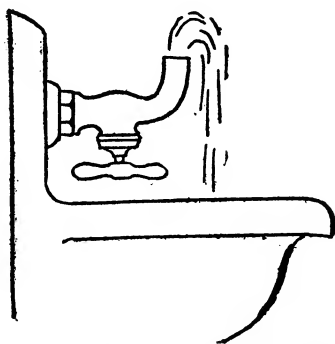
Scrape off a quantity of lead from some lead pencils, and blow into the lock through keyhole.

EASY WAY TO KEEP SAW FROM FALLING WHEN STANDING ON END

File two small teeth as shown in cut. The blade should be filed off square at the end and at right angles to a line on the center of gravity. The teeth are then formed by filing away sufficient metal on the blade. Saw fixed in this way will stand in almost any place or position.



SANITARY FOUNT



Turn faucet upside down with a wrench.

TO ELIMINATE VIBRATION

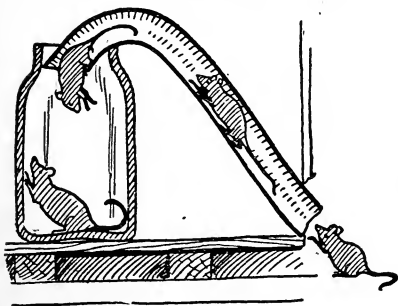
In order to overcome the vibration of the metal horn when playing a phonograph, buckle a shawl strap around the center of the horn as shown in cut.



TO KEEP WAGON TIRES TIGHT

Soak the rims in boiling coal tar. Allow them to become thoroughly saturated. After soaking the felloes thus, paint the whole wheel with hot tar.

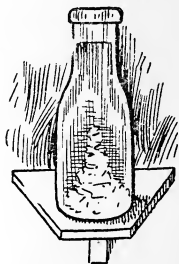
HOME-MADE MOUSE TRAP



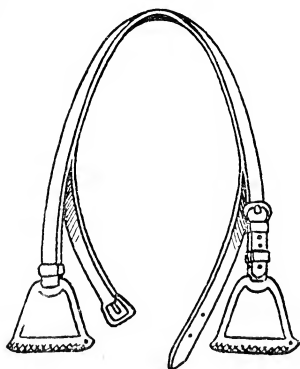
Use piece of an old bicycle tire and a glass fruit jar. Stick one end of the tire into the mouse hole. No need of using bait in jars.

HOME-MADE BAROMETER

Put into a clean white glass bottle a small quantity of pulverized alum and fill the bottle with alcohol. In clear weather the liquid will be perfectly clear, but on the approach of rain the alum will be visible at the bottom of the bottle in a spiral, cloudy form, gradually clouding the whole bottle.



GOOD SADDLE



Use a pair of old stirrups and a wide strap, with a narrow strap for the belly-band.

PREVENTS GLUE BOTTLE STOPPER FROM STICKING

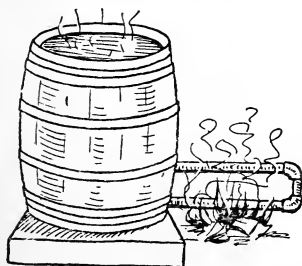
When a bottle of glue has been opened, rub fat of some kind, such as cold cream or lard on the stopper before inserting it back in the bottle, then the cork will not be glued to the bottle. The fat excludes the air.



CUTTING LOAF BREAD

Cut through the center, then cut slices from the center toward the ends. The two cut surfaces can be placed together, excluding the air and keeps the bread fresh.

HEATING WATER FOR SCALDING HOGS



Use a molasses barrel; bore two 1-inch holes. One hole inch and half from the bottom, the other nine inches above it on a line. Have the pipe projecting out five feet, using elbows and unions as shown in cut.

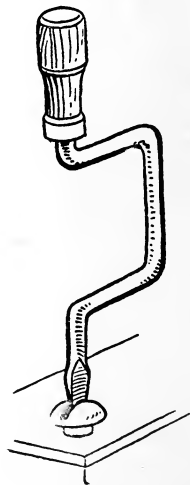
EASY WAY TO CUT BOTTLE IN HALF

Wet two pieces of paper and wrap them about the bottle, allowing a space between as shown in cut. Nick the glass carefully with a file and use hot flame on the space between the two pieces of paper.



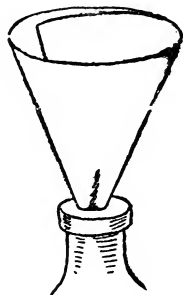
TO MAKE POWERFUL SCREWDRIVER

Heat and bend a long-shank screwdriver, as you will soon discover it is indispensable when forcing home a very tight screw.



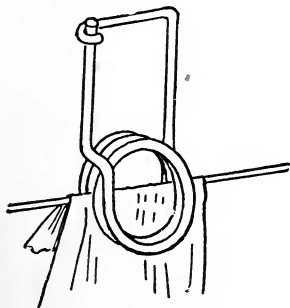
PAPER FUNNEL

Bottles having small necks are hard to fill without spilling the liquid. Here is a simple funnel made out of a small piece of writing paper.



MAKING BOILED WATER MORE PALATABLE

To overcome the flat taste of boiled water, pour water rapidly from one pitcher to the other, holding pitchers some distance apart. Aerates the water and restores its natural flavor. Try it and be convinced.

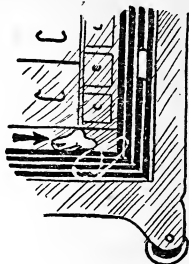


HOME-MADE CLOTHESPIN

Take a common piece of number eight galvanized wire and bend it around a broom handle, as per cut.

TO PREVENT MOLD IN SAFES

Place a small lump of camphor in the safe, the accumulation of mold upon money, papers and books will be prevented.



TO DRIVE A COW

An unruly cow may sometimes be more easily driven if a short piece of chain is tied to one of her front legs. When she attempts to run the chain thrashes the other legs. She soon discovers the reason and walks.

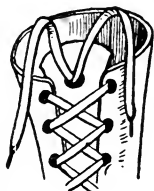
PLANTS THAT PREVENT MALARIA



The atmosphere in damp residential districts may be greatly improved if the laurel and sunflower are grown. It is claimed that the laurel gives off an abundance of ozone and sunflower destroys the malarial condition of the atmosphere.

KEEP SHOE STRINGS TIED

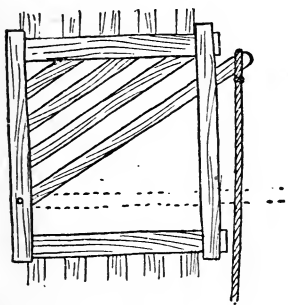
Punch hole in the tongue and tie the bow as shown in cut.



A HOUSEHOLD SALVE

A good salve for family use is made by melting together equal parts of beeswax, tallow, rosin and camphor gum.

TO HOLD CATTLE WHEN DEHORNING



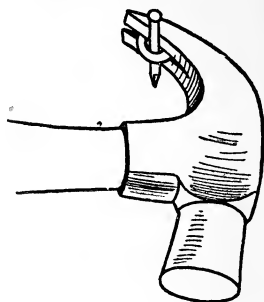
Use a lock gate for holding. Drive animal to the gate and just as he passes his head in, pull the rope against his neck. Have gate made of strong timber.

WHEN SELECTING A BROOM

Remember to select one of light green color and of fine straw. See that there isn't any stalk or stalks below the threads, and be sure to shake the broom to prevent getting one that has loose straw. The life of a defective broom is very short.

EASY WAY TO DRAW STAPLES

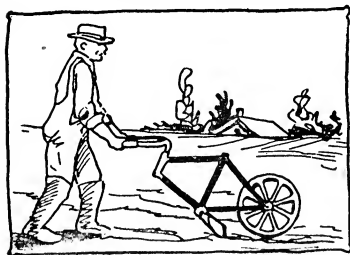
You can draw a staple without bending it out of shape by using nail as shown in cut.



TO REMOVE CAKE FROM A PAN

Set the pan, while very hot, immediately on taking it from the oven, on a damp cloth, and allow it to stand for a few minutes. It will then leave the pan without sticking to its sides.

HOME-MADE GARDEN TOOL



An old bicycle frame can easily be made into a hand plow as shown in cut.

TO FLAVOR A WATERMELON

First thread a needle with cotton thread and run the needle through the stem that runs from the melon to the vine. Use any flavor of extract you wish, having the cotton thread to run down through the cork of the bottle. Cut a V in the cork so as to enable the extract to pass out freely.



EASY WAY TO CLEAN A GUN

Wipe out your gun with a rag that is soaked with mercurial ointment. It will not only prevent the rusting of same, but will loosen whatever lead there may be in the barrels.

TO FRY BACON



By cutting the skin on slices of bacon when frying you will overcome all trouble of having the strips curl up as they do at times.

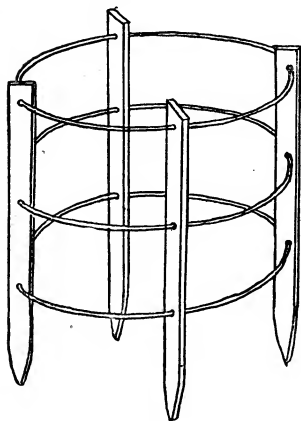
A GOOD RAT GUARD

Make a few disks from the bottoms of old tomato cans, string them on the cord or wire upon which the articles



are hung. Result is when Mr. Rat attempts to climb over the disks they will turn and throw him off.

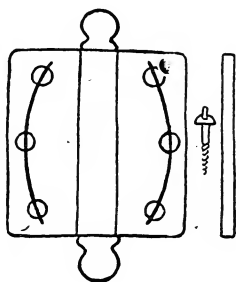
FOLDING TOMATO VINE ARBOR



Is made of laths and number eight wire and makes an ideal support for your tomatoes. After the season is over with, fold up and save until next season.

PREVENT SCREWS FROM WORKING OUT

On account of the jar in closing, screws in hinges on screen doors will work loose and invariably fall on the floor. A flat spring wire placed in the slots of the screw heads and soldered will overcome this trouble.



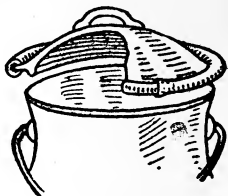
HOME-MADE CRADLE FOR BABY



Made out of a piece of one-quarter inch round iron and a clothes basket as shown in cut. A piece of mosquito netting thrown over the rod will keep flies out of the cradle.

NOISELESS COVER ON SLOP JAR

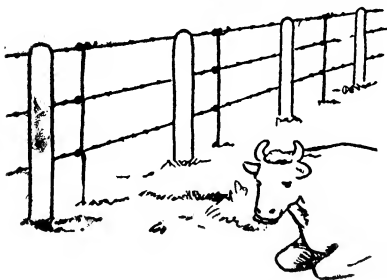
To overcome the noise made when replacing the cover on a slop jar, take a piece of seven-eighths rubber tubing and split it open on one side, then slip it over the edge of the top as shown in cut.



TESTING FRUIT JARS

Partly fill with warm water, sealing with rubber rings. Turn jars upside down and place on a folded newspaper. If slightest leak, water will trickle out and be seen on the paper, thereby eliminating the use of defective rubber rings, uneven, or cracked jar tops.

PREVENT STOCK FROM BEING KILLED BY LIGHTNING



About every quarter of a mile run wires over the barbed wire and into the ground as shown in cut.

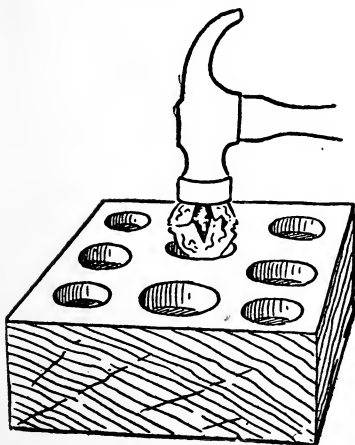
TESTING LEATHER BELTING

Place a small strip in strong vinegar. The only change in a good piece of leather will be it will turn a bit darker. A poor grade of leather will quickly swell; in fact, become a gelatinous mass.



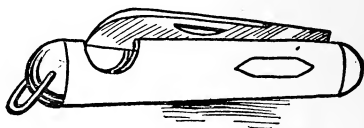
HOME-MADE NUT CRACKER

Bore holes of various sizes about one-half inch deep into a block of wood as shown in cut.

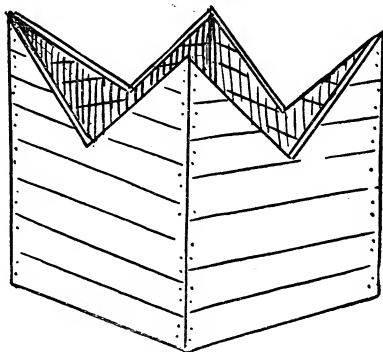


TO OPEN A POCKET KNIFE

Grind a notch in the handle as shown in the cut, thereby overcoming any risk of breaking a finger nail.



TO PREVENT WASTING OF FEED



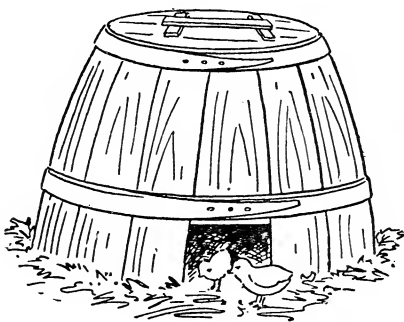
Make box five feet square, corner posts out of two by fours, five feet high, saw on the four sides as shown in cut. You will find it will prevent the cattle from wasting by tramping the fodder under foot, and will save you many dollars in a year's time.

HOME-MADE MOUSE TRAP

Take a piece of cheese and put it in thimble, use a cup and balance it on thimble and when the mouse nibbles the cheese in the thimble, the cup will fall and make him a prisoner.



HOME-MADE BROODER



Cut an old sugar barrel half in two, line inside with paper or old flannel cloth; at bottom cut holes as shown in cut. Chicks can be kept perfectly warm by placing a stone jug of boiling water inside. Jug should be refilled with hot water twice per day.

REMOVING OLD WALL PAPER

A good way to do this is to make a solution of paste or flour in water and add a few ounces of baking soda and apply freely. You will discover in a few moments' time that the paper can be removed without any trouble.



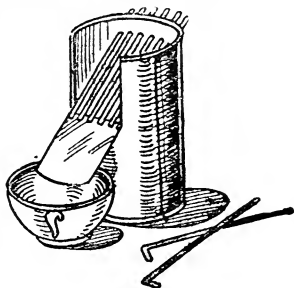
SEEDLESS WATERMELON



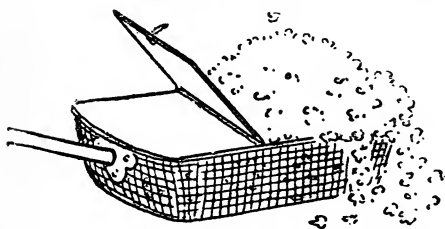
Pile dirt over one of the runners as shown in cut and in due time the vine will take root under the pile of dirt; then clip the vine, thereby making a separate and distinct vine from the original vine. The first melon may not come seedless, but others will.

HOME-MADE EGG SEPARATOR

First bend wires like those at bottom of cut. Cut the can and bend the tin down. Punch holes to receive the wires through the back side of the can. Make holes so the wires will be four-sixteenths of an inch apart.



EASY WAY TO POP CORN



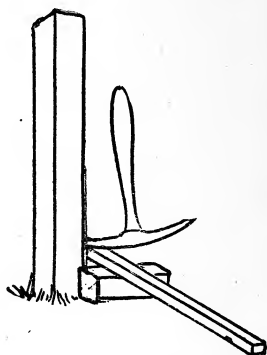
Drench the pop corn in water before placing over the fire and every grain will pop.

COOKING PEAS

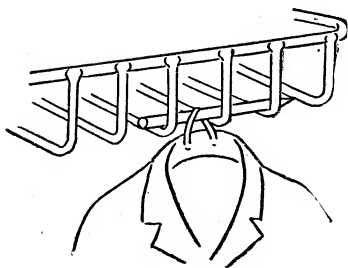
Discard the spoiled pods and after washing the rest throw them into a kettle of boiling water. When they are done the pods will rise to the top, while the peas will remain at the bottom of the kettle. You will find peas cooked in the pods have a very fine flavor due to the conserving of the aroma.

HOME-MADE POST PULLER

All you need is crow-bar, block of wood and pick, and drive pick in post as shown in cut.



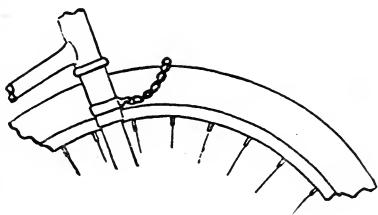
GOOD COAT HANGER



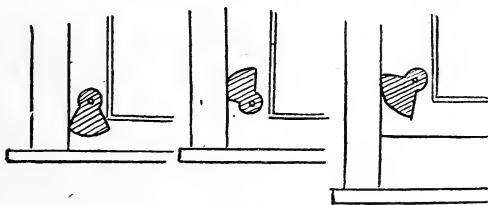
When traveling on a train, hang on a lead pencil, placed over two or more of the bars in rack overhead as shown in cut.

TO PREVENT TIRE PUNCTURES

Attach a piece of flat chain to the front fork so that it will lay flat on the tire and you will find all small pieces of glass will be pulled off as soon as they come in contact with the chain.



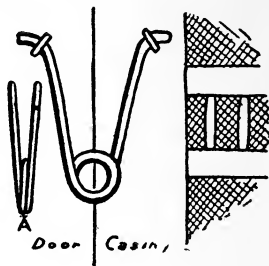
WINDOW LOCK



Attached to the window sash by means of a screw and is placed just far enough away from the window casing so that the edges of the outside circle will engage firmly against it, but will not allow the catch to pass the center.

SCREEN DOOR SPRING

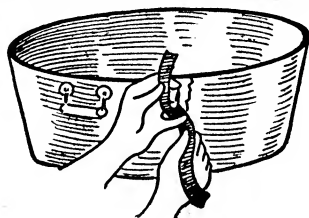
Bend a piece of steel spring wire into the shape shown in cut. When more strength is desired use three or more on a door.



RAISING DENTS IN WOOD

Frequently when hammering on finely finished wood, the hammer may glance and make a bad imprint; such imprint may be removed by pouring enough wood alcohol in the dent to cover it. Then light the alcohol and allow it to burn out. The heat will expand the spot and can be planed and made smooth.

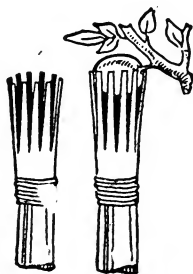
MENDING PAPER PULP BASKETS OR PANS



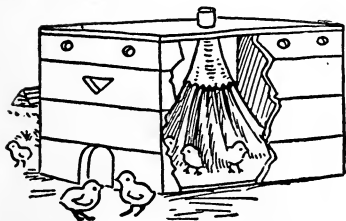
These can be easily mended with adhesive tape, and three coats of paint will make the bucket almost as good as new.

PICKING SMALL FRUIT

To pick figs or other small fruit, cut down a bamboo cane, split the top as shown in cut.



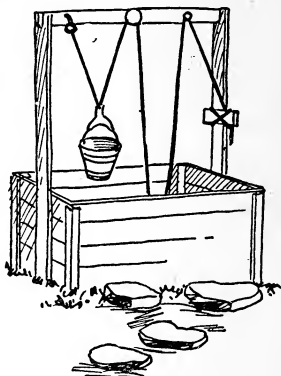
HOME-MADE BROODER



Use a box and hang inside an old feather duster so that the tips of the feathers will almost touch the floor of the box. Box should not be over fourteen inches high. For ventilation, bore a few holes in the side of the box near the top.

DRAWING WATER FROM A WELL

While the full one is being raised the empty one is going down, result is nothing but the water is being lifted, as the two buckets counter-balance one another.



PICKING UP SCISSORS OR NEEDLES

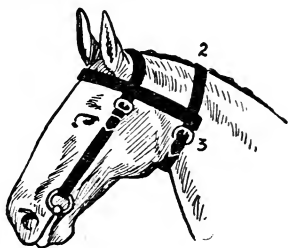
To overcome the annoyance of picking up needles or scissors when sewing, attach a small magnet to a piece of ribbon. You will find it to be a great help to an invalid or elderly person.

EASY WAY TO CLEAN SPARK PLUGS

Nothing is better for cleaning spark plugs than common household ammonia. Partly fill a Mason fruit jar with the ammonia and after putting in the plugs screw the top down fast so as to prevent the fumes from escaping and allow the jar to sit overnight. No need of taking the plug apart.

PREVENT BRIDLE SLIPPING

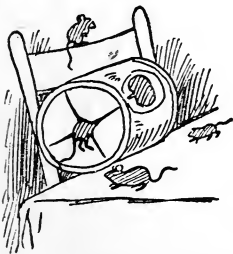
To prevent horse slipping bridle, do away with band No. 1 and put in a new one, extending back to figure No. 3.



TRAPPING BUMBLE BEES

Take a one-gallon jug and fill half full of water, leaving out the cork; set near nest. Throw stones or clods of dirt at the nest till the bees come out around the jug, and see how quickly a whole colony will crawl into the jug and get drowned. Set the jug near entrance or door.

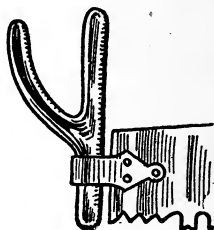
HOME-MADE MOUSE TRAP



Cut the top of an old tomato can into fourths; bend the four ends inward, leaving a hole about five-eighths of an inch in diameter in the center. Mouse can go in the can but can't get out.

ONE-MAN SAW HANDLE

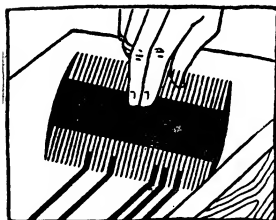
Made from a forked branch of a tree, gives the workman better control over the saw. One man can use it and do nearly as much work as with a helper.



KILLING LICE ON ANIMALS

Take equal parts of coal oil and lard. Mix and add a very small quantity of carbolic acid. Rub on the animal, not all over, but in spots. The vermin will leave.

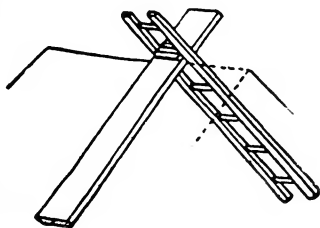
FINE COMB USED AS RULING PEN



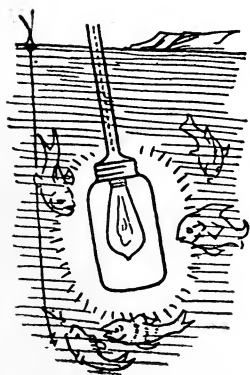
When you are minus a ruling pen, a fine-toothed comb will serve as a ruling pen. If you will bevel slightly the edges of the teeth that come in contact with the paper, it will give you straighter edges to the lines drawn.

HOLDING LADDER ON ROOF

Use any ordinary ladder and a board twelve to fourteen feet long on the other side. Be sure and nail two cleats near one end to provide a notch for a rung on the ladder.



TO ATTRACT FISH AT NIGHT



A simple affair to attract fish at night can be made by cutting a one-quarter-inch hole in the top of a pint fruit jar cover. Insert a piece of gas pipe in the hole and solder in to the cover. Run electric wires through the pipe. Get juice from pocket battery.

TO CONSERVE ICE

As we all know, heat travels to the top. For that reason ice covering the entire bottom of ice box will last much longer than a block that projects high up in the box.



TO EXPEL WORMS FROM HOGS

Take one-fourth to one-half can of concentrated lye to a barrel of soaked corn, shorts or slop. Your wormy, coughing stunted animals will soon make a wonderful change for the better.

TURNING LEAVES OF BOOK



In turning leaves of a book or running through a bunch of papers, use a few rubber bands around tips of fingers, as shown in cut.

PREVENT KETTLE FROM BOILING OVER

If the kettle in which syrup is being boiled is greased with lard two inches down from the top it will not boil over.

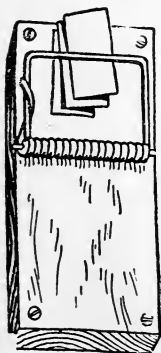


SHEEP—TO PREVENT JUMPING FENCES

Clip off the eyelashes of the under lids with a pair of scissors. The animal will not attempt a fence again until the eye-lashes are grown.

FOR THE MILK MAN

To always have the milk or bread ticket ready when the man comes, simply tack up on the side of the door or window an old worn out mouse trap.



SAFE WAY TO SHIP BABY CHICKS

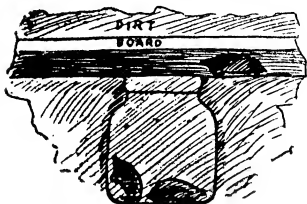
The great loss in shipping chicks is due to a lack of ventilation. To overcome this, build a wooden frame around the box, which prevents crowding of other packages against it while in transit. Nail stick across the top to be used as a handle.



REMOVING A BUG OUT OF THE EAR

A bug in the ear is a very painful sensation. A lighted match held close to the ear will frequently cause the bug to come out. If convenient, a candle is better, and an electric light is still better. Sweet oil poured in the ear is a good remedy. It is very healing to the wound that the bug is so apt to leave.

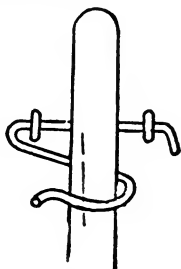
MOLE TRAP



Sink a half gallon jar into the ground, level with the ground. See cut.

HOME-MADE BROOM HOLDER

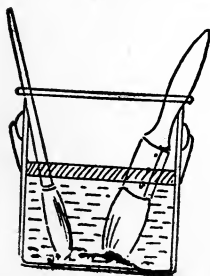
Made out of number eight wire with a few staples. Easy to make and very durable.



TO PREVENT CROWS EATING CORN

Corn to be used for seed, if mixed in the proportion of four quarts of corn to one tablespoonful of coal tar, and then dried in ashes to prevent sticking to the hands when being planted, will not be troubled by birds or worms.

PRESERVING A PAINT BRUSH



Place your brushes in a can that is partly filled with water. Add one inch of kerosene oil to prevent the evaporation of water.

A GOOD PIPE STAND

Pipes must be kept in an upright position to overcome the spilling of ashes. Make yourself a stand out of a small piece of sheet metal as shown in cut, thereby overcoming all criticisms from the "good little housewife."



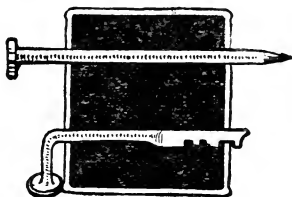
CLEANING CELLAR OF FLEAS



When everything else fails, get some strong creosote and use as shown in cut, or place a pan partly filled with it after closing up all doors and windows. (Before doing this take the dog out of the cellar.)

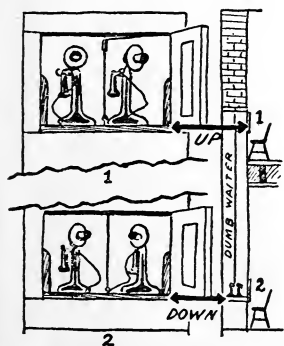
HOME-MADE KEY

One can make a very good key at home by flattening a 20-penny nail and filing it down as shown in cut.



FILLING FOR PIN CUSHIONS

Coarse coffee grounds, washed and thoroughly dried, make an ideal filling for pin cushions. They do not absorb moisture, and pins and needles will not rust if stuck in such a cushion.

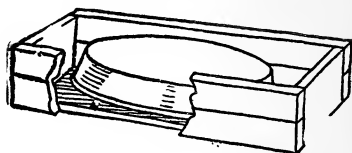


AN ACCESSIBLE TELEPHONE

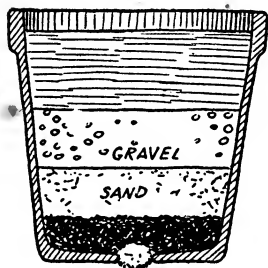
A phone that can be used upstairs as well as down, thereby saving one many steps, can be made by installing a small dumb-waiter as shown in cut. In this built-in box both phones are stationed, the cord attachment being midway between the two floors.

CEMENT POULTRY PAN

Turn an old pie or cake pan upside down in a wooden box and after mixing your cement pour it over the pan and don't disturb until cement has set. You will have a feeding pan that will wear for years.

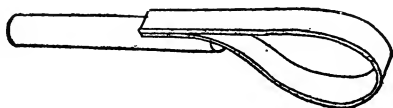


HOME-MADE FILTER



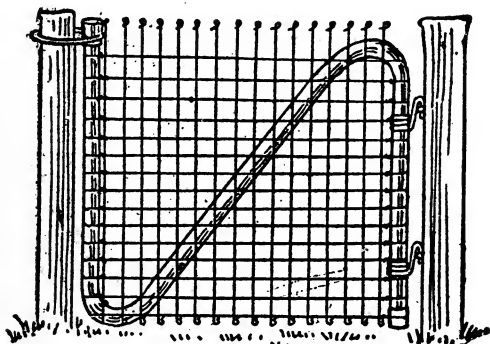
Make out of an ordinary flower pot that is eight to ten inches in diameter at the top. Stop up the hole in the bottom of the pot with a sponge which must fit in tight. First put in a layer of charcoal two and one-half inches deep, then a layer of clean sand and then a layer of coarse gravel three and one-half inches deep on top. Clean the filter from time to time, so as to keep it absolutely clean at all times.

ANOTHER FRUIT JAR OPENER



Take a small leather strap and screw same to an old broom handle, making strap the proper size to accommodate the cover.

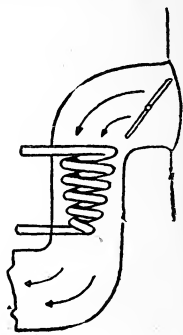
SUBSTANTIAL GATE



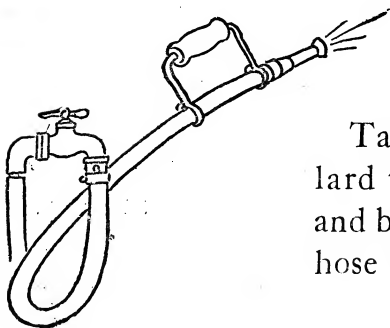
Bend piece of old pipe into the shape of the letter N. Cover gate with wire netting and hang with wire hooks with staples fitted into the post.

HEATING WATER IN FURNACE PIPE

Put an eight-inch coil in the smoke pipe and it will conserve the waste heat from your furnace. Easy to make and will pay for itself in short while.



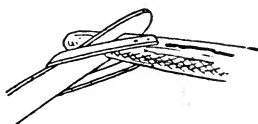
HANDLE FOR HOSE



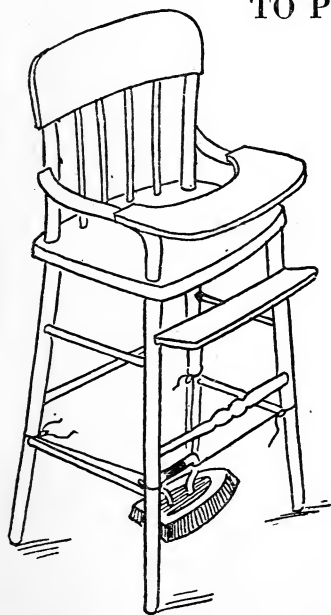
Take the handle off a lard tub or an old bucket and bend the wire around hose as shown in cut.

TRACE HOLDER

Tack leather strap on tree as shown in cut.



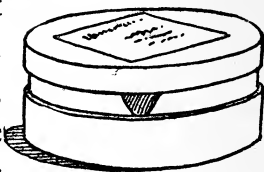
TO PREVENT BABY FROM OVERTURNING HIGH CHAIR



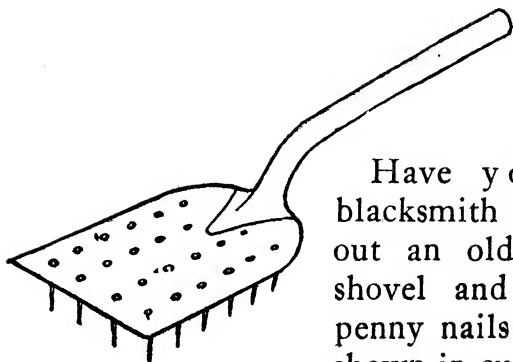
Anchor chair by hanging a flat iron to lower rounds as shown in cut.

DISPENSING PILLS

One will often get out more pills than is needed. To overcome such trouble, cut a small notch the size of the pill in the box and by raising the cover a little only one pill will drop out.



CLOD CRUSHER FOR GARDENERS



Have your local blacksmith to flatten out an old worn-out shovel and rivet 16-penny nails into it, as shown in cut.

GREASING A GRIDDLE

Use a turnip or potato cut in half. You will find same better than grease, as there is no smoke. Remember griddles need no greasing if a small amount of fat is put in the batter.



CURE FOR RATTLESNAKE BITES

Common coal or kerosene oil, such as is used in lamps, has been found a specific for rattlesnake bites. Put the oil in a small cup or large mouth bottle and press firmly against the bitten place. Renew the oil every few minutes.

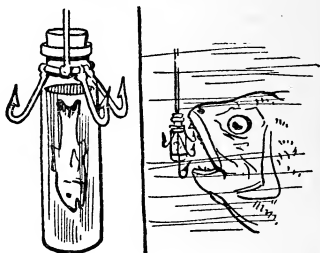
BOILING EGGS



You will find boiled eggs can be removed from the shell more easily if a teaspoon of salt is added to the water while they are boiling.

LIVE BAIT WHEN FISHING

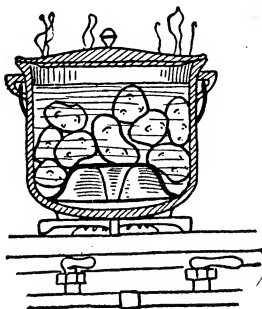
Bottle up a minnow in a small bottle, tying hooks at neck of bottle as shown in cut. Have cork of bottle notched so as to permit fresh water to enter at all times.



FOR A CHOKING COW

A cow that is choked with an apple or potato may sometimes be relieved by breaking a raw egg in her mouth, her head being elevated at the time.

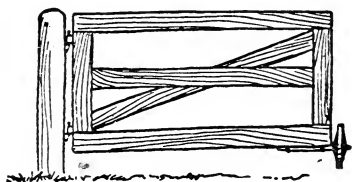
TO PREVENT VEGETABLES FROM BURNING



An easy way to keep vegetables from burning or sticking to the bottom of a pot is to place a pie plate upside down in the pot, as shown in cut.

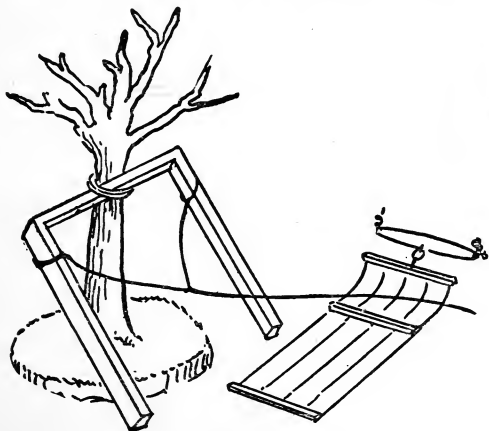
TO HOLD UP A GATE

Use an old worn out wheel from a piece of machinery, or cut out a wheel from block of wood.



Place it at bottom of gate as shown in cut.

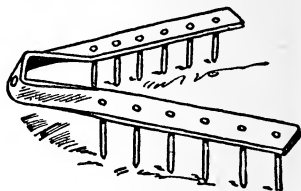
TRANSPLANTING LARGE TREES



Make frame of four by fours and braced as shown in cut. Dig a small ditch around the tree, hitch horse to the rope and see how easily it comes up.

GOOD TOOTH HARROW

Made out of a piece of old flat iron and bend as shown in cut. Cut six holes on each side and one in the center. Make teeth five inches long, sharpening one end.



RIDDING STOCK OF WARTS

Kerosene poured on the warts once a day will soon rid the animal of these ugly excrescences. A bottle filled with kerosene, with a quill through the neck, will be found very handy for this purpose.

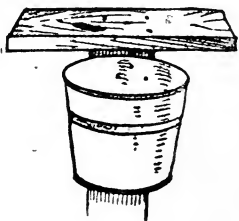
ICELESS REFRIGERATOR



Make frame and cover with fly screen; cover with burlap, leaving strips long enough to extend down in the pan which is filled with water. Never allow burlap to dry out.

MILK STOOL AND PAIL HOLDER

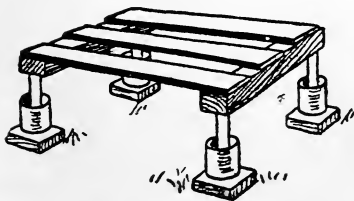
Nail your bucket on the front side of the stool which will overcome the trouble of holding the pail between one's legs.



SEWING OVERCOAT BUTTONS

If another button, of somewhat smaller size, is placed on the under side and the button that buttons is sewed to this, it will be found that they will not easily come off.

GOOD BEEHIVE STAND

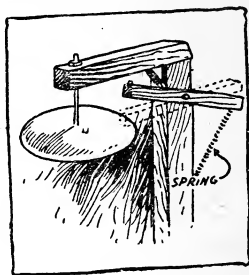


Build frame as shown in cut and set posts in old tomato cans with lids cut out thereby preventing ants and worms

from getting into the hive.

HOME-MADE DINNER GONG

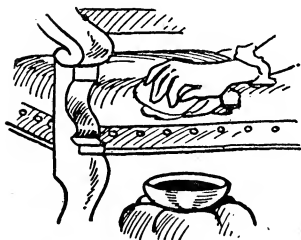
To make a good dinner gong all that is needed is an old harrow disk, a bolt and a spring. Bolt disk loosely to the cross arm. See cut.



SURE CURE FOR WORMS IN HORSES

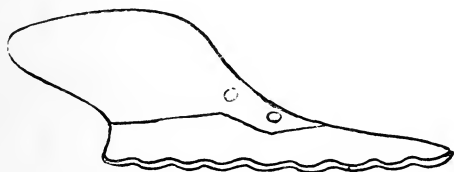
Put one tablespoonful of linseed oil in a feed of meal every day for 5 days; will expel all worms.

CLEANING LEATHER FURNITURE



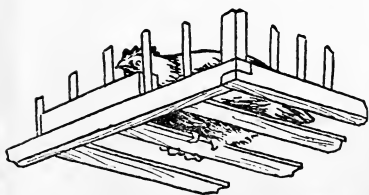
Beat up the whites of four eggs and rub furniture well with flannel rag. When polishing black leather add a little lamp black.

PLOWSHARE FOR ALFALFA



It is hard to plow alfalfa sod on account of the heavy roots. If you will grind on your emery wheel the edge of the plow-share like in cut, you will have no trouble as the roots slip over the scallops and are cut off easily.

TO BREAK UP SETTING HENS



Build a coop out of laths and hang it up so as to permit air to circle around under the old hen at all times, and it will

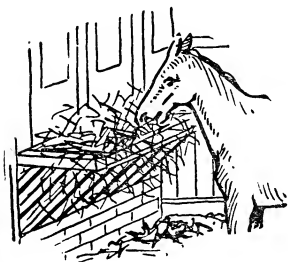
only be a matter of a few days when she is back on the job.

HOME-MADE WRENCH

Made from a piece of bar iron or any old piece of pipe, with teeth filed in as shown in cut.



HOW TO MAKE GOOD WHITEWASH

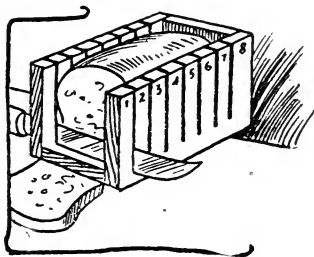


Whitewash applied to the interior of barns and sheds will add greatly to the light in dark places. The United States government has prepared a standard formula which we give below:

Slack one-half bushel of unslacked lime in boiling water, strain and add a peck of salt dissolved in warm water. Add also three pounds of ground rice boiled to a thin paste and one-half pound of Spanish whiting. Dissolve one pound of clear glue in warm water and add. Mix the whole thoroughly and let stand for several days before using. When ready to apply, heat thoroughly and apply as hot as possible.

EASY WAY TO SLICE BREAD

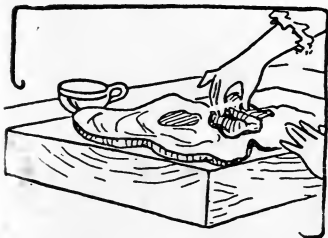
Make trough out of hard wood. Cut or saw slots every one-half inch or even closer if smaller slices are desired.



TO PREVENT LAMPS FROM SMOKING

Soak the lamp wick in strong vinegar and dry thoroughly before using. It will then burn freely and give much satisfaction for the trouble taken.

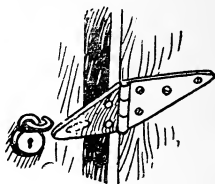
MAKE MEAT MORE TENDER



The cheap cuts of meats can be made more tender by brushing them over with a solution of one tablespoon of vinegar and two tablespoonfuls of oil. Be sure and allow the meat to set for one-half hour before cooking.

EASY WAY TO MAKE A HASP

Use an old worn out strap hinge. Answers every purpose and saves you running to town to get one.



KEEPING SPOOLS OF THREAD IN ORDER

A very simple way of keeping the numerous spools of thread get-at-able, that so often litter the spool drawer of the sewing machine, is to fit into the bottom of the drawer a thin board, making of it a false bottom. Through this drive, at regular intervals, small round two-penny nails, on end of which a spool may be held in its stated place.

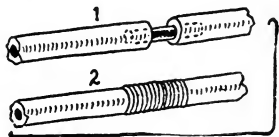
TO REMOVE BUTTON FROM CHILD'S NOSTRIL



Use a pinch of snuff, thereby causing violent sneezing, will extract any button from nostril if medical assistance is not at hand.

TO MEND BROKEN HOSE

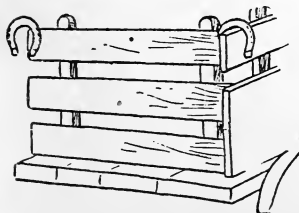
Cut the hose apart where it is defective; take a piece of iron pipe two or three inches long, twist the hose over it until the ends meet, wrap with strong string, well waxed, or light wire.



FLIES AND ROACHES

Flies and roaches may be run off the premises by using a wash for the floors and ceilings of closets, made of a very strong solution of alum. Dissolve the alum in boiling water, using as much alum as the water will dissolve. With this solution wash the floor, ceiling and walls.

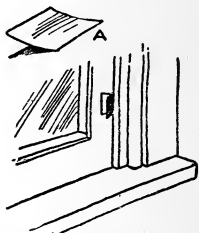
TAKES THE PLACE OF WAGON RODS



Use wornout horse-shoes on the end gate and at the top. Shoes hang over the top of the side planks.

TO PREVENT WINDOWS FROM RATTLING

Bend a piece of sheet metal in the shape of a capital A and insert same between the sash and window frame.



WHEN EGGS ARE ACCIDENTALLY BROKEN

Place same in a glass or cup and cover with cold water which will prevent them from drying, and you will find them as good as fresh when ready to use.

TO LOOSEN A GLASS STOPPER



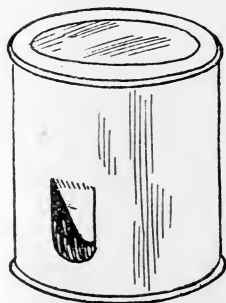
The cord is given one turn or loop over the neck of the bottle and the cord drawn up snugly. The bottle is then drawn quickly back and forth to make the loop pass over the neck with quite a friction.

PRACTICAL PIGEON HOPPER



Take some quart size buckets and cut the tops out as shown in cut. Tack the buckets on a one by six plank, having buckets ten inches apart. It will cut your feed bill, as they are unable to throw the feed out.

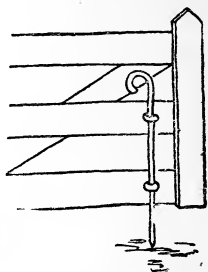
VESSEL FOR WATERING CHICKENS



Use an old tomato can, cutting the hole about one and a half inch from the bottom U-shaped.

TO HOLD GATE OPEN

Use wornout umbrella rod and have staples loose by not driving them too far in the fence.



HINTS FOR WASH DAY



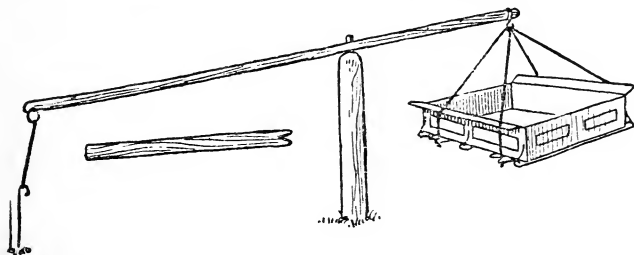
A handful of salt helps to set the colors of light cambrics and lawns.

A little beef gall will brighten purple, yellow or any green tints.

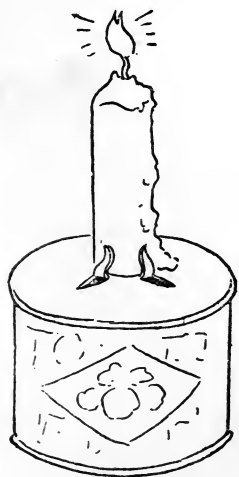
A little pipe clay well dissolved in water in which linens are being washed will assist in cleansing the more soiled pieces, as well as giving them the appearance of having been bleached.

The addition of a teaspoonful of paraffin will assist in removing stains.

MOVING WAGON BED



Rig up on a pole a contrivance like the cut shows. You will find that it will save your back when changing wagon beds.

HOME-MADE
CANDLESTICK

Cut three slits in the bottom of an old tomato can and turn points up sufficiently to hold the candle in place.

TO CARRY SALT AND PEPPER

Cut off a piece of bamboo, leaving joint in center. Use corks for stoppers.



A GOOD LINIMENT FOR MAN OR BEAST

Put in a quart bottle a pint of kerosene, add five cents worth of camphor gum and let stand over night, add one-half pint of sweet oil, shake well and it is ready for use. For burns, stiff neck and sore throat it has no equal. It is fine for raw sores on man or beast. Try this valuable liniment on your horse's shoulder when sore.

CATCHING MINNOWS



shells are more effective.

Hold under the water a wide mouth jar partly filled with broken shells. Have shells well cleaned as the white shining

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